Sample/Site ID		Distance [m]	Date	Time
OTEQ	ARSG/EPA			
OT-00000	CC01F	0	10/03/12	16:10
OT-00336	CC01H	336	10/03/12	15:35
OT-00371	CC01T	371	10/03/12	15:15
OT-00557	CC01U	557	10/03/12	14:45
OT-01192	CC02H	1192	10/03/12	14:30
OT-01380	CC02B	1380	10/03/12	13:55
OT-01407	CC02B2	1407	10/03/12	13:50
OT-01827	CC03A	1827	10/03/12	13:05
OT-02744	CC03B	2744	10/03/12	12:20
OT-03009	CC03	3009	10/03/12	12:00
OT-03376	CC18B	3376	10/03/12	11:15
OT-03564	CC18	3564	10/03/12	10:45

OT-01355	MTD-4	1355	10/03/12	15:00
OT-01388	FD-1	1388	10/03/12	14:20
OT-02785	CC03E	2785	10/03/12	12:13
OT-02785	CC03E-DUP	2785	10/03/12	12:20
OT-03078	CC07	3078	10/03/12	11:40
OT-03443	ATS-1	3443	10/03/12	11:00
OT-03452	CC19C	3452	10/03/12	10:54
OT-03689	CC20B	3689	10/04/12	12:20
OT-04016	CC17	4016	10/03/12	10:20
OT-05736	CC26	5736	10/02/12	16:50
OT-05736	CC26-DUP	5736	10/02/12	16:55
OT-08991	CC38C	8991	10/04/12	12:30
OT-09065	CC38	9065	10/04/12	12:15
OT-09939	CC40	9939	10/02/12	15:00
OT-10164	CC42	10164	10/02/12	14:30
OT-16030	A68	16030	10/01/12	16:50
OT-16030	A68-DUP	16030	10/01/12	16:55
OT-16030	A68	16030	10/02/12	11:45
OT-16030	A68	16030	10/03/12	08:45
OT-16030	A68	16030	10/04/12	10:15
OT-17397	M34	17397	10/02/12	10:00
OT-17397	M34	17397	10/04/12	09:30
OT-25331	A73MC	25331	10/03/12	
OT-47057	A75CC	47057	10/03/12	

Cement Creek to A72 Samples

Additional samples collected Oct 1-4, 2012, along Cement Creek and the Animas R

Sample/Site ID ARSG/EPA	Date	Time	Sample Number	Matrix	pH	Conductivity µs/cm	Flow CFS	Dissolved O2 mg/L
A56	10/3/2012	17:10	A830-0096	Water	7.39	263.1	24.71	
A58	10/4/2012	13:00	A830-0097	Water	7.45	244.3	2.58	8.52
A62	10/4/2012	11:20	A830-0098	Water	7.65	222	0.818	
A62B	10/4/2012	12:30	A830-0099	Water	7.64	226.4	0.777	
A73	10/3/2012	14:30	A830-0109	Water	6.54	525.5	78.76	8.44
A73B	10/3/2012	13:30	A830-0110	Water	6.74	483.3	83.04	8.65
A73EC	10/3/2012	14:50	A830-0111	Water	7.05	646.7	78.36	8.76
CC01C	10/2/2012	11:10	A830-0117	Water	3.2	486.4	0.0008	6.94
CC01C1	10/2/2012	11:25	A830-0118	Water	2.88	629		7.73
CC02D	10/2/2012	9:50	A830-0125	Water	2.28	1379	0.2036	5.68
CC02D-DUP	10/2/2012	9:50	A830-0174	Water	2.28	1379	0.2036	5.68
CC02E	10/2/2012	9:15	A830-0126	Water	3.78	835.9	0.054	5.29
CC02K	10/2/2012	8:45	A830-0128	Water	5.6	297.9		4.66
CC03C	10/2/2012	13:40	A830-0132	Water	5.31	2177	0.4494	6.76
CC03D	10/2/2012	12:50	A830-0133	Water	5.34	2172	1.005	7.81
CC06	10/2/2012	16:20	A830-0135	Water	3.69	2009	0.123	4.1
CC06B	10/2/2012	16:35	A830-0136	Water	2.02	2214	0.0028	1.76
CC14	10/3/2012	15:00	A830-0138	Water	6.5	695.9	0.879	
CC15	10/3/2012	15:00	A830-0139	Water	7.01	154.1	0.187	
CC16B	10/3/2012	15:10	A830-0140	Water	6.55	554	1.04	
CC19	10/2/2012	15:15	A830-0144	Water	4.88	2382	0.2305	6.37
FB-01	10/1/2012	17:30	A830-0180	Water	N/A (FB)	N/A (FB)	N/A (FB)	N/A (FB)
FB-02	10/2/2012	18:40	A830-0181	Water	N/A (FB)	N/A (FB)	N/A (FB)	N/A (FB)
FB-03	10/3/2012	12:40	A830-0182	Water	N/A (FB)	N/A (FB)	N/A (FB)	N/A (FB)
FB-04	10/4/2012	14:30	A830-0183	Water	N/A (FB)	N/A (FB)	N/A (FB)	N/A (FB)
SEEPA	10/4/2012	13:30	A830-0188	Water	6	814.7		

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Ag Dissolved µg/L	Ag Total µg/L	Al Dissolved µg/L	Al Total µg/L	As Dissolved µg/L	As Total µg/L	Ba Dissolved µg/L	Ba Total µg/L	Be Dissolved µg/L
<0.500	<2.50	42.7	<100	<0.500	<2.50	26.5	26.2	<2.00
<0.500	<2.50	<20.0	<100	<0.500	<2.50	31.3	31.5	<2.00
<0.500	<2.50	22.4	<100	<0.500	<2.50	10.8	<25.0	<2.00
<0.500	<2.50	<20.0	<100	<0.500	<2.50	11.0	<25.0	<2.00
<0.500	<2.50	44.8	2420	<0.500	<2.50	25.3	<25.0	<2.00
<0.500	<2.50	39.1	1980	<0.500	<2.50	27.2	25.9	<2.00
<0.500	<2.50	<20.0	<100	<0.500	<2.50	40.0	38.2	<2.00
<0.500	<2.50	5460	5330	0.743	<2.50	7.73	<25.0	<2.00
<0.500	<2.50	11700	11500	1.56	13.1	<5.00	<25.0	<2.00
<5.00	<2.50	3540	3430	<5.00	<2.50	<50.0	<25.0	3.75
<2.50	<2.50	3200	3440	<2.50	2.53	<25.0	<25.0	<10.0
<5.00	<2.50	234	224	9.10	11.1	<50.0	<25.0	<2.00
<0.500	<2.50	2010	1930	<0.500	<2.50	8.39	<25.0	<2.00
<5.00	<2.50	4530	4540	<5.00	<2.50	<50.0	<25.0	<20.0
<5.00	<2.50	2580	4410	<5.00	<2.50	<50.0	<25.0	<20.0
<2.50	<2.50	18200	18100	<2.50	<2.50	<25.0	<25.0	<10.0
<2.50	<2.50	20500	20100	<2.50	<2.50	<25.0	<25.0	<10.0
<2.50	<2.50	717	880	<2.50	<2.50	<25.0	<25.0	<10.0
<2.50	<2.50	<100	470	<2.50	<2.50	<25.0	<25.0	<10.0
<2.50	<2.50	320	1320	<2.50	<2.50	<25.0	<25.0	<10.0
<2.50	<2.50	4970	5150	<2.50	<2.50	<25.0	<25.0	<10.0
<2.50	<2.50	<20.0	<100	<2.50	<2.50	<25.0	<25.0	<2.00
<2.50	<2.50	<20.0	<100	<2.50	<2.50	<25.0	<25.0	<2.00
<2.50	<2.50	<20.0	<100	<2.50	<2.50	<25.0	<25.0	<2.00
<2.50	<2.50	<20.0	<100	<2.50	<2.50	<25.0	<25.0	<2.00
<2.50	<2.50	1510	2940	<2.50	<2.50	<25.0	<25.0	<10.0

Be Total µg/L	Ca Dissolved µg/L	Ca Total µg/L	Cd Dissolved µg/L	Cd Total µg/L	Co Dissolved µg/L	Co Total µg/L	Cr Dissolved µg/L	Cr Total µg/L
<10.0	61400	58500	0.594	1.01	<0.100	<0.500	<1.00	<5.00
<10.0	43300	41300	1.48	1.85	<0.100	<0.500	2.00	<5.00
<10.0	38100	36500	0.235	0.515	<0.100	<0.500	2.57	<5.00
<10.0	38900	38100	0.214	<0.500	<0.100	<0.500	1.72	<5.00
<10.0	90300	88900	1.70	2.20	6.90	6.97	<1.00	<5.00
<10.0	77600	75600	1.40	1.47	5.36	5.66	<1.00	5.83
<10.0	7090	6870	<0.100	<0.500	<0.100	<0.500	<1.00	<5.00
<10.0	16200	15800	46.1	46.7	6.78	6.28	<1.00	5.80
<10.0	17900	17800	136	153	13.8	13.6	1.02	7.61
<10.0	221000	215000	48.6	48.4	23.7	21.6	<10.0	<5.00
<10.0	217000	209000	46.6	46.4	22.6	21.8	<5.00	<5.00
<10.0	163000	159000	<1.00	0.541	5.19	4.62	<10.0	<5.00
<10.0	37900	37500	20.9	19.3	6.70	6.49	<1.00	5.91
<10.0	439000	443000	34.2	32.4	110	93.6	<10.0	<5.00
<10.0	439000	444000	31.2	31.5	103	99.6	<10.0	5.61
<10.0	381000	388000	50.5	49.9	69.1	71.5	5.15	9.85
<10.0	379000	376000	59.4	56.8	72.1	71.9	10.2	6.02
<10.0	224000	227000	1.71	1.85	12.3	14.3	<5.00	<5.00
<10.0	37600	37900	<0.500	<0.500	1.07	1.07	<5.00	<5.00
<10.0	158000	163000	1.49	1.66	9.85	9.63	<5.00	5.08
<10.0	463000	469000	2.25	1.80	131	139	<5.00	<5.00
<10.0	<100	<500	<0.500	<0.500	<0.500	<0.500	<5.00	<5.00
<10.0	<100	<500	<0.500	<0.500	<0.500	<0.500	<5.00	<5.00
<10.0	<100	<500	<0.500	<0.500	<0.500	<0.500	5.00	<5.00
<10.0	<100	<500	<0.500	<0.500	<0.500	<0.500	<5.00	<5.00
<10.0	106000	103000	15.8	14.8	21.1	18.9	<5.00	<5.00

Cu Dissolved µg/L	Cu Total µg/L	Fe Dissolved µg/L	Fe Total µg/L	K Dissolved µg/L	K Total µg/L	Mg Dissolved µg/L	Mg Total µg/L	Mn Dissolved µg/L
0.695	<2.50	<100	<500	736	<1250	3670	3550	184
4.66	6.38	<100	<500	590	<1250	2090	2040	<2.00
2.77	3.10	<100	<500	470	<1250	1760	1720	158
0.913	3.30	<100	<500	409	<1250	1670	1650	<2.00
4.30	15.9	1020	3210	1020	<1250	6210	6170	1440
3.08	13.1	810	2790	953	<1250	5660	5510	1210
0.732	<2.50	<100	<500	514	<1250	2340	2310	<2.00
1460	1300	3800	3920	673	<1250	5760	5610	3750
5920	6280	10400	12600	664	<1250	7430	7350	12200
16.2	15.2	27200	28300	2330	2320	14000	13500	28400
22.9	16.8	26800	28000	2350	2320	13300	13500	29200
<5.00	<2.50	6510	7700	697	<1250	8330	8160	2670
17.3	16.8	6400	6290	741	<1250	3140	3100	1710
<5.00	<2.50	91000	93400	<2500	1640	27500	27600	33900
<5.00	<2.50	90000	92500	<2500	1700	27400	27700	33600
3420	3660	66400	68400	<1250	1410	21600	21700	28900
4040	4260	62200	61700	<1250	<1250	22400	21900	28500
<2.50	4.95	18200	19700	<1250	<1250	9290	9320	2570
4.18	6.14	<500	<500	<1250	<1250	2060	2060	64.8
2.63	11.8	9810	11800	<1250	<1250	6980	7110	1760
<2.50	<2.50	141000	148000	1250	1370	31900	32200	48400
2.66	<2.50	<100	<500	<250	<1250	<100	<500	<2.00
2.96	<2.50	<100	<500	<250	<1250	<100	<500	<2.00
3.60	<2.50	<100	<500	<250	<1250	<100	<500	<2.00
<2.50	<2.50	<100	<500	<250	<1250	<100	<500	<2.00
85.0	111	16800	17900	1680	1490	9340	9110	37200

Mn Total µg/L	Na Dissolved µg/L	Na Total µg/L	Ni Dissolved µg/L	Ni Total µg/L	Pb Dissolved µg/L	Pb Total µg/L	Sb Dissolved µg/L	Sb Total µg/L
189	2540	2480	<0.500	<2.50	0.155	2.27	<0.500	<2.50
<10.0	2690	2600	<0.500	<2.50	2.42	3.33	<0.500	<2.50
161	2060	2040	0.758	<2.50	<0.100	0.567	<0.500	<2.50
<10.0	2150	2180	<0.500	<2.50	<0.100	0.520	<0.500	<2.50
1470	3710	3610	4.83	3.76	<0.100	3.80	<0.500	<2.50
1210	3260	3140	3.26	2.94	<0.100	3.28	<0.500	<2.50
<10.0	827	<1250	<0.500	<2.50	<0.100	<0.500	<0.500	<2.50
3750	1120	<1250	7.19	7.74	2.31	2.72	<0.500	<2.50
12600	1690	1620	8.83	9.89	0.885	44.4	<0.500	<2.50
30400	6670	6360	11.8	9.12	228	240	<5.00	<2.50
29400	6300	6430	11.4	12.2	210	230	<2.50	<2.50
2710	5580	5270	<5.00	<2.50	<1.00	2.18	<5.00	<2.50
1720	3640	3480	4.35	4.38	27.6	31.4	<0.500	<2.50
33900	8740	8570	50.7	45.6	21.5	84.5	<5.00	<2.50
33800	8680	8650	48.4	48.5	3.63	84.3	<5.00	<2.50
29100	5160	5040	44.9	36.3	4.75	4.90	<2.50	<2.50
28500	5170	4930	55.2	34.7	0.765	0.856	<2.50	<2.50
2610	4160	4100	10.9	4.77	<0.500	3.59	<2.50	<2.50
66.9	1570	1510	<2.50	<2.50	<0.500	<0.500	<2.50	<2.50
1780	3330	3320	8.40	<2.50	<0.500	2.89	<2.50	<2.50
49300	9410	9550	69.6	50.9	1.15	2.77	<2.50	<2.50
<10.0	<250	<1250	<2.50	<2.50	<0.500	<0.500	<2.50	<2.50
<10.0	<250	<1250	4.03	<2.50	<0.500	<0.500	<2.50	<2.50
<10.0	<250	<1250	4.52	<2.50	0.599	<0.500	<2.50	<2.50
<10.0	<250	<1250	3.57	<2.50	<0.500	<0.500	<2.50	<2.50
36200	3790	3570	14.1	13.8	9.15	71.7	<2.50	<2.50

Se Dissolved µg/L	Se Total µg/L	Sr Dissolved µg/L	Sr Total µg/L	Tl Dissolved µg/L	Tl Total µg/L	V Dissolved µg/L	V Total µg/L	Zn Dissolved µg/L
<0.500	<2.50	579	578	<0.500	29.4	<2.00	<10.0	189
1.06	<2.50	595	601	<0.500	6.53	<2.00	<10.0	181
<0.500	<2.50	413	417	<0.500	<2.50	<2.00	<10.0	52.5
<0.500	<2.50	458	466	<0.500	<2.50	<2.00	<10.0	29.0
<0.500	<2.50	934	950	<0.500	<2.50	<2.00	<10.0	682
<0.500	<2.50	793	808	<0.500	<2.50	<2.00	<10.0	561
<0.500	<2.50	52.7	52.1	<0.500	<2.50	<2.00	<10.0	<10.0
0.760	3.41	49.8	49.3	<0.500	<2.50	<2.00	<10.0	10400
2.13	5.19	69.0	68.7	<0.500	<2.50	<2.00	<10.0	33200
<5.00	5.47	1840	1880	<5.00	<2.50	<20.0	<10.0	33800
<2.50	2.63	1850	1880	<2.50	<2.50	<10.0	<10.0	33400
<5.00	3.08	1780	1810	<5.00	<2.50	<20.0	<10.0	833
<0.500	<2.50	508	510	<0.500	<2.50	<2.00	<10.0	2230
<5.00	3.05	5010	4950	<5.00	<2.50	<20.0	<10.0	16300
<5.00	3.93	4970	4970	<5.00	<2.50	<20.0	<10.0	16000
4.87	7.83	5780	5830	<2.50	5.06	<10.0	<10.0	19500
5.41	6.31	5690	5680	<2.50	<2.50	<10.0	<10.0	21600
<2.50	<2.50	2550	2590	<2.50	<2.50	<10.0	<10.0	726
<2.50	6.33	350	350	<2.50	<2.50	<10.0	<10.0	<50.0
<2.50	5.68	1820	1850	<2.50	<2.50	<10.0	<10.0	504
4.52	6.09	5730	5840	<2.50	<2.50	<10.0	<10.0	21100
<2.50	<2.50	<2.00	<10.0	<2.50	<2.50	<10.0	<10.0	<10.0
<2.50	<2.50	<2.00	<10.0	<2.50	<2.50	<10.0	<10.0	<10.0
<2.50	<2.50	<2.00	<10.0	<2.50	<2.50	<10.0	<10.0	<10.0
<2.50	<2.50	<2.00	<10.0	<2.50	<2.50	<10.0	<10.0	<10.0
<2.50	<2.50	1100	1090	<2.50	<2.50	<10.0	<10.0	4420

Zn Total µg/L	Chloride mg/L	Fluoride mg/L	Hardness mg/L	Nitrate/Nitrite as N mg/L	Sulfate as SO4 mg/L	Total Alkalinity mg CaCO3/L
189	1.2	0.5	168	<0.2	130	41.6
177	<1.0	0.2	117	0.2	61.3	52.1
54.0	<1.0	0.4	102	<0.2	59.1	41.2
<50.0	<1.0	0.4	104	0.2	57.6	43.0
685	<10.0	<1.0	251	<2.0	232	<5.00
557	1.2	0.3	217	0.2	144	5.54
<50.0	<1.0	<0.1	27	0.2	16.6	9.88
10000	<1.0	1.1	64	0.3	153	<5.00
32800	<10.0	2.5	75	<2.0	253	<5.00
34100	<10.0	4.3	610	<2.0	718	<5.00
33100	<10.0	4.3	597	<2.0	718	<5.00
840	<10.0	3.3	441	<2.0	369	27.1
2130	<1.0	2.7	108	<0.2	130	<5.00
16100	<100	<10.0	1210	<20.0	1240	<5.00
16200	<100	<10.0	1210	<20.0	1240	<5.00
19700	<100	<10.0	1040	<20.0	1130	<5.00
21400	<100	<10.0	1040	<20.0	1160	<5.00
736	<10.0	2.3	598	<2.0	536	9.35
<50.0	<1.0	0.5	102	0.2	93.4	6.82
522	<10.0	1.6	423	<2.0	387	<5.00
21200	<100	<10.0	1290	<20.0	1440	<5.00
<50.0	<1.0	<0.1	<2	<0.2	<2.0	<5.00
<50.0	<1.0	<0.1	<2	<0.2	<2.0	<5.00
<50.0	<1.0	<0.1	<2	<0.2	<2.0	<5.00
<50.0	<1.0	<0.1	<2	<0.2	<2.0	<5.00
4220	<10.0	3.3	304	<2.0	341	<5.00

Cation/Anion RPD	pass/fail
0.9	pass
6.5	fail
4.9	pass
5.6	fail
0.6	pass
18.8	fail
5.1	fail
26.7	fail
25.4	fail
0.1	pass
0.8	pass
4.7	pass
4.9	pass
0.6	pass
0.5	pass
3.6	pass
0.5	pass
4.9	pass
1.3	pass
3.2	pass
0.3	pass
N/A (FB)	N/A (FB)
N/A (FB)	N/A (FB)
N/A (FB)	N/A (FB)
N/A (FB)	N/A (FB)
4.5	pass

OTEQ	Sample/Site ID ARSG/EPA	Distance m	Date Collected	Sample Time	Sample Number
OT-00000	CC01F	0	10/3/2012	16:10	A830-0119
OT-00336	CC01H	336	10/3/2012	15:35	A830-0120
OT-00371	CC01T	371	10/3/2012	15:16	A830-0121
OT-00557	CC01U	557	10/3/2012	14:45	A830-0122
OT-01192	CC02H	1192	10/3/2012	14:30	A830-0127
OT-01355	MTD-4	1355	10/3/2012	15:00	A830-0187
OT-01380	CC02B	1380	10/3/2012	13:55	A830-0123
OT-01388	FD-1	1388	10/3/2012	14:20	A830-0184
OT-01407	CC02B2	1407	10/3/2012	13:50	A830-0124
OT-01827	CC03A	1827	10/3/2012	13:05	A830-0130
OT-02744	CC03B	2744	10/3/2012	12:20	A830-0131
OT-02785	CC03E	2785	10/3/2012	12:13	A830-0134
OT-02785	CC03E-DUP	2785	10/3/2012	12:13	A830-0179
OT-03009	CC03	3009	10/3/2012	12:00	A830-0129
OT-03078	CC07	3078	10/3/2012	11:40	A830-0137
OT-03376	CC18B	3376	10/3/2012	11:15	A830-0143
OT-03443	ATS-1	3443	10/3/2012	11:00	A830-0115
OT-03452	CC19C	3452	10/3/2012	10:54	A830-0145
OT-03564	CC18	3564	10/3/2012	10:45	A830-0142
OT-03689	CC20B	3689	10/4/2012	12:20	A830-0147
OT-03977	CC20	3977	10/3/2012	10:10	A830-0146
OT-04016	CC17	4016	10/3/2012	10:20	A830-0141
OT-04056	CC21	4056	10/2/2012	17:35	A830-0148
OT-04056	CC21	4056	10/3/2012	9:40	A830-0149
OT-05666	CC21B	5666	10/2/2012	16:50	A830-0150
OT-05666	CC21B	5666	10/3/2012	9:40	A830-0151
OT-05666	CC21B-DUP	5666	10/2/2012	16:50	A830-0175
OT-05736	CC26	5736	10/2/2012	16:50	A830-0152
OT-05736	CC26-DUP	5736	10/2/2012	16:50	A830-0176
OT-06552	CC28C	6552	10/2/2012	16:30	A830-0153
OT-06552	CC28C	6552	10/3/2012	9:15	A830-0154
OT-06552	CC28C	6552	10/4/2012	11:40	A830-0155
OT-07222	CC30N	7222	10/2/2012	16:15	A830-0156
OT-08546	CC34	8546	10/2/2012	16:00	A830-0157
OT-08546	CC34	8546	10/4/2012	11:25	A830-0158
OT-08991	CC38C	8991	10/4/2012	12:30	A830-0160
OT-09065	CC38	9065	10/4/2012	12:15	A830-0159
OT-09842	CC40B	9842	10/2/2012	15:30	A830-0162
OT-09842	CC40B	9842	10/4/2012	11:07	A830-0163
OT-09939	CC-40	9939	10/2/2012	15:00	A830-0161
OT-10087	CC41	10087	10/2/2012	14:15	A830-0164
OT-10164	CC42	10164	10/2/2012	14:30	A830-0165
OT-10530	CC44B	10530	10/2/2012	13:45	A830-0166

OT-11420	CC45K	11420	10/2/2012	13:45	A830-0167
OT-12392	CC46B	12392	10/2/2012	13:15	A830-0168
OT-13443	CC47C	13443	10/2/2012	12:45	A830-0169
OT-14716	CC48	14716	10/2/2012	12:30	A830-0170
OT-14716	CC48	14716	10/4/2012	10:30	A830-0171
OT-14716	CC48-DUP	14716	10/2/2012	12:30	A830-0178
OT-16024	CC49	16024	10/2/2012	12:00	A830-0172
OT-16024	CC49-DUP	16024	10/2/2012	12:00	A830-0177
OT-16030	A68	16030	10/1/2012	16:50	A830-0100
OT-16030	A68	16030	10/2/2012	11:45	A830-0101
OT-16030	A68	16030	10/3/2012	8:45	A830-0102
OT-16030	A68	16030	10/4/2012	10:15	A830-0103
OT-16030	A68-DUP	16030	10/1/2012	16:50	A830-0173
OT-16720	A69A	16720	10/2/2012	11:00	A830-0104
OT-17360	A70B	17360	10/2/2012	10:20	A830-0105
OT-17397	M34	17397	10/2/2012	10:00	A830-0185
OT-17397	M34	17397	10/4/2012	9:30	A830-0186
OT-17805	A71B	17805	10/2/2012	9:35	A830-0106
OT-18637	A72	18637	10/2/2012	9:15	A830-0107
OT-18637	A72	18637	10/4/2012	9:30	A830-0108
OT-47025	A75D	47025	10/3/2012	11:45	A830-0114
OT-47057	A75CC	47057	10/3/2012	11:05	A830-0113
OT-47245	A75B	47245	10/3/2012	9:40	A830-0112
	A56		10/3/2012	17:10	A830-0096
	A58		10/4/2012	13:00	A830-0097
	A62		10/4/2012	11:20	A830-0098
	A62B		10/4/2012	12:30	A830-0099
	A73		10/3/2012	14:30	A830-0109
	A73B		10/3/2012	13:30	A830-0110
	A73EC		10/3/2012	14:50	A830-0111
	BBRIDGE		10/3/2012	10:20	A830-0116
	CC01C		10/2/2012	11:10	A830-0117
	CC01C1		10/2/2012	11:25	A830-0118
	CC02D		10/2/2012	9:50	A830-0125
	CC02D-DUP		10/2/2012	9:50	A830-0174
	CC02E		10/2/2012	9:15	A830-0126
	CC02K		10/2/2012	8:45	A830-0128
	CC03C		10/2/2012	13:40	A830-0132
	CC03D		10/2/2012	12:50	A830-0133
	CC06		10/2/2012	16:20	A830-0135
	CC06B		10/2/2012	16:35	A830-0136
	CC14		10/3/2012	15:00	A830-0138
	CC15		10/3/2012	15:00	A830-0139
	CC16B		10/3/2012	15:10	A830-0140
	CC19		10/2/2012	15:15	A830-0144

FB-01	10/1/2012	17:30	A830-0180
FB-02	10/2/2012	18:40	A830-0181
FB-03	10/3/2012	12:40	A830-0182
FB-04	10/4/2012	14:30	A830-0183
SEEPA	10/4/2012	13:30	A830-0188

NOTE:

Blue cell indicates inaccurate Specific Conductivity value (per Rob Runkel)

Yellow cell indicates Cation balance RPD 5-10%

Red cell indicates Cation balance RPD >10%

Matrix	pH	Conductivity µs/cm	Flow CFS	Dissolved O2 mg/L	Ag Dissolved µg/L	Ag Total µg/L	Al Dissolved µg/L
Water	7.59	329.7	0.047	7.39	<0.500	<2.50	134
Water	6.03	262.6	0.12	7.6	<0.500	<2.50	341
Water	6.07	374.1	0.31	7.26	<0.500	<2.50	1240
Water	6.49	376.4	0.338	7.21	<0.500	<2.50	1070
Water	5.19	367	0.3	7.44	<0.500	<2.50	1060
Water	3.39	1150	0.0601	7.2	<2.50	<2.50	7810
Water	4.09	505	0.43	7.4	<0.500	<2.50	2360
Water	4.04	853	0.047	7.3	<2.50	<2.50	4440
Water	4.1	558	0.53	7.5	<0.500	<2.50	2700
Water	5.62	577.3	0.646	7.6	<0.500	<2.50	2410
Water	5.31	291.6	0.78	7.82	<0.500	<2.50	2290
Water	6.33	2164		7.6	<2.50	<2.50	2420
Water	6.33	2164		7.6	<2.50	<2.50	2430
Water	5.87	1407	1.41	7.85	<5.00	<2.50	2950
Water	2.98	2058	0.1872	8.76	<2.50	<2.50	28300
Water	3.88	1473	1.95	8.48	<2.50	<2.50	6840
Water	3.19	2454		7.3	<5.00	<2.50	30700
Water	5.22	2370	0.2036	7.7	<2.50	<2.50	5370
Water	3.8	1593	2.27	8.63	<2.50	<2.50	7010
Water	3.13	2353		<2.50	<2.50	<2.50	37300
Water	3.72	1613	1.94	8.72	<2.50	<2.50	7600
Water	6.62	863	2.87	8.9	<2.50	<2.50	295
Water	3.85	1214	4.56	7.64	<2.50	<2.50	3950
Water	4.09	1183	4.94	9	<2.50	<2.50	3900
Water	3.58	1118	5.92	6.8	<2.50	<2.50	5770
Water	3.86	1092	5.91	8.77	<2.50	<2.50	4930
Water	3.58	1118	5.92	6.8	<2.50	<2.50	24500
Water	3.42	687.5	0.36	8.15	<2.50	<2.50	25000
Water	3.42	687.5	0.36	8.15	<2.50	<2.50	5790
Water	3.49	1156	8.41	6.6	<2.50	<2.50	9240
Water	3.67	1121	9.8	8.2	<2.50	<2.50	9070
Water	3.6	1135	9.8	<2.50	<2.50	<2.50	9140
Water	3.39	1194	9.29	7	<2.50	<2.50	9050
Water	3.49	1195	9.85	7	<2.50	<2.50	8560
Water	3.81	1181	9.22	8.2	<2.50	<2.50	8580
Water	7.04	1566	0.053	7.06	<2.50	<2.50	187
Water	6.96	1417	0.065	7.44	<2.50	<2.50	<100
Water	3.27	1211	9.5	7.04	<2.50	<2.50	8290
Water	3.48	1166	10.2	<2.50	<2.50	<2.50	8400
Water	3.03	1148	0.0128	6.48	<2.50	<2.50	9690
Water	3.38	1205	10.76	7.2	<2.50	<2.50	8160
Water	7.6	2261	0.996	<2.50	<2.50	<2.50	161
Water	3.51	1149	11.21	7.2	<2.50	<2.50	7350

Water	3.6	2403	13.05	<2.50	<2.50	7290
Water	3.48	1165	12.95	7.6<2.50	<2.50	7540
Water	3.57	2402	13	<2.50	<2.50	7460
Water	3.4	1155	14	8.1<2.50	<2.50	7480
Water	3.68	1151	15	8.81<2.50	<2.50	7520
Water	3.4	1155	14	8.1<2.50	<2.50	7630
Water	3.43	1158	15.51	8.3<2.50	<2.50	7660
Water	3.43	1158	15.51	8.3<2.50	<2.50	7600
Water	7.67	369.8	27	7.58<0.500	<2.50	62.2
Water	7.42	751	27	<0.500	<2.50	53.1
Water	7.24	351	27	9.4<0.500	<2.50	51.7
Water	5.79	533	27	<0.500	<2.50	49.1
Water	7.67	369.8	27	7.58<2.50	<2.50	<100
Water	5.54	612	42.88	8.7<0.500	<2.50	603
Water	6.05	1232	42.9	<0.500	<2.50	1690
Water	6.15	465	30	9<2.50	<2.50	177
Water	6.19	476.3	28	9.29<2.50	<2.50	373
Water	6.1	1133	71.7	<0.500	<2.50	309
Water	5.98	529	74	9<0.500	<2.50	342
Water	5.79	533	72	<0.500	<2.50	418
Water	7.21	408.5	94.82	9.27<0.500	<2.50	<20.0
Water	7.99	251.9	11.46	9.5<0.500	<2.50	34.4
Water	7.02	407.8	116.83	9.48<0.500	<2.50	21.3
Water	7.39	263.1	24.71	<0.500	<2.50	42.7
Water	7.45	244.3	2.58	8.52<0.500	<2.50	<20.0
Water	7.65	222	0.818	<0.500	<2.50	22.4
Water	7.64	226.4	0.777	<0.500	<2.50	<20.0
Water	6.54	525.5	78.76	8.44<0.500	<2.50	44.8
Water	6.74	483.3	83.04	8.65<0.500	<2.50	39.1
Water	7.05	646.7	78.36	8.76<0.500	<2.50	<20.0
Water	7.2	284	120.3	<0.500	<2.50	26.2
Water	3.2	486.4	0.0008	6.94<0.500	<2.50	5460
Water	2.88	629		7.73<0.500	<2.50	11700
Water	2.28	1379	0.2036	5.68<5.00	<2.50	3540
Water	2.28	1379	0.2036	5.68<2.50	<2.50	3200
Water	3.78	835.9	0.054	5.29<5.00	<2.50	234
Water	5.6	297.9		4.66<0.500	<2.50	2010
Water	5.31	2177	0.4494	6.76<5.00	<2.50	4530
Water	5.34	2172	1.005	7.81<5.00	<2.50	2580
Water	3.69	2009	0.123	4.1<2.50	<2.50	18200
Water	2.02	2214	0.0028	1.76<2.50	<2.50	20500
Water	6.5	695.9	0.879	<2.50	<2.50	717
Water	7.01	154.1	0.187	<2.50	<2.50	<100
Water	6.55	554	1.04	<2.50	<2.50	320
Water	4.88	2382	0.2305	6.37<2.50	<2.50	4970

Water			<2.50	<2.50	<20.0
Water			<2.50	<2.50	<20.0
Water			<2.50	<2.50	<20.0
Water			<2.50	<2.50	<20.0
Water	6	814.7	<2.50	<2.50	1510

Al Total µg/L	As Dissolved µg/L	As Total µg/L	Ba Dissolved µg/L	Ba Total µg/L	Be Dissolved µg/L	Be Total µg/L	Ca Dissolved µg/L	Ca Total µg/L
280	<0.500	<2.50	36.4	36.4	<2.00	<10.0	55700	54600
346	<0.500	<2.50	25.2	25.7	<2.00	<10.0	41200	39600
1290	<0.500	<2.50	30.0	29.3	<2.00	<10.0	57800	55900
1260	<0.500	<2.50	30.0	29.6	<2.00	<10.0	58500	57000
1190	<0.500	<2.50	29.5	30.2	<2.00	<10.0	56200	55600
8030	<2.50	<2.50	<25.0	<25.0	<10.0	<10.0	164000	160000
2600	<0.500	<2.50	28.3	28.3	<2.00	<10.0	72600	70800
4510	<2.50	<2.50	<25.0	<25.0	<10.0	<10.0	146000	142000
2760	<0.500	<2.50	26.5	27.0	<2.00	<10.0	83600	81300
2360	<0.500	<2.50	23.8	25.5	<2.00	<10.0	97900	96000
2240	<0.500	<2.50	23.0	<25.0	<2.00	<10.0	102000	100000
4840	<2.50	<2.50	<25.0	<25.0	<10.0	<10.0	445000	454000
4870	<2.50	<2.50	<25.0	<25.0	<10.0	<10.0	443000	432000
4220	<5.00	<2.50	<50.0	<25.0	<20.0	<10.0	268000	272000
28100	<2.50	<2.50	<25.0	<25.0	<10.0	<10.0	309000	316000
7130	<2.50	<2.50	<25.0	<25.0	<10.0	<10.0	269000	273000
31800	<5.00	<2.50	<50.0	<25.0	<20.0	<10.0	399000	420000
5610	<2.50	<2.50	<25.0	<25.0	<10.0	<10.0	458000	461000
7090	<2.50	<2.50	<25.0	<25.0	<10.0	<10.0	287000	292000
37100	<2.50	<2.50	<25.0	<25.0	<10.0	<10.0	342000	344000
7750	<2.50	<2.50	<25.0	<25.0	<10.0	<10.0	286000	290000
1690	<2.50	<2.50	<25.0	<25.0	<10.0	<10.0	174000	180000
4560	<2.50	<2.50	<25.0	<25.0	<10.0	<10.0	227000	230000
4660	<2.50	<2.50	<25.0	<25.0	<10.0	<10.0	226000	233000
6200	<2.50	2.68	<25.0	<25.0	<10.0	<10.0	188000	191000
4990	<2.50	<2.50	<25.0	<25.0	<10.0	<10.0	189000	192000
24600	37.6	<2.50	<25.0	<25.0	<10.0	<10.0	33700	32500
24500	35.1	39.7	<25.0	<25.0	<10.0	<10.0	34100	34100
6300	<2.50	<2.50	<25.0	<25.0	<10.0	<10.0	192000	184000
9470	6.69	10.7	<25.0	<25.0	<10.0	<10.0	183000	186000
9410	8.40	11.1	<25.0	<25.0	<10.0	<10.0	181000	184000
9580	7.55	10.7	<25.0	<25.0	<10.0	<10.0	183000	185000
9380	4.42	9.03	<25.0	<25.0	<10.0	<10.0	186000	188000
8860	<2.50	6.92	<25.0	<25.0	<10.0	<10.0	188000	191000
8930	3.00	6.73	<25.0	<25.0	<10.0	<10.0	192000	193000
295	<2.50	3.33	<25.0	<25.0	<10.0	<10.0	319000	318000
406	<2.50	2.68	<25.0	<25.0	<10.0	<10.0	289000	292000
8600	<2.50	6.29	<25.0	<25.0	<10.0	<10.0	187000	189000
8530	<2.50	7.16	<25.0	<25.0	<10.0	<10.0	190000	187000
9920	<2.50	<2.50	26.7	<25.0	<10.0	<10.0	98300	98300
8530	<2.50	6.11	<25.0	<25.0	<10.0	<10.0	188000	188000
496	<2.50	<2.50	<25.0	<25.0	<10.0	<10.0	234000	231000
7510	<2.50	6.10	<25.0	<25.0	<10.0	<10.0	190000	189000

7550	<2.50	6.59	<25.0	<25.0	<10.0	<10.0	193000	194000
7710	<2.50	5.94	<25.0	<25.0	<10.0	<10.0	192000	192000
7800	<2.50	4.90	<25.0	<25.0	<10.0	<10.0	188000	191000
7670	<2.50	4.81	<25.0	<25.0	<10.0	<10.0	188000	189000
7890	<2.50	4.92	<25.0	<25.0	<10.0	<10.0	188000	192000
7780	<2.50	4.30	<25.0	<25.0	<10.0	<10.0	196000	190000
7800	<2.50	4.67	<25.0	<25.0	<10.0	<10.0	199000	190000
7770	<2.50	4.82	<25.0	<25.0	<10.0	<10.0	196000	191000
<100	<0.500	<2.50	25.5	26.6	<2.00	<10.0	63500	63700
<100	<0.500	<2.50	25.7	25.4	<2.00	<10.0	62700	61600
<100	<0.500	<2.50	25.3	25.3	<2.00	<10.0	63300	61300
<100	<0.500	<2.50	24.8	25.6	<2.00	<10.0	63700	62200
<100	<2.50	<2.50	25.2	26.7	<10.0	<10.0	62900	60000
2520	<0.500	<2.50	20.2	<25.0	<2.00	<10.0	109000	105000
2460	<0.500	<2.50	20.4	<25.0	<2.00	<10.0	108000	103000
3390	<2.50	<2.50	25.4	25.2	<10.0	<10.0	77300	75100
3670	<2.50	<2.50	27.1	25.7	<10.0	<10.0	79200	76800
2780	<0.500	<2.50	23.1	<25.0	<2.00	<10.0	94900	92400
2620	<0.500	<2.50	23.0	<25.0	<2.00	<10.0	94300	91100
2710	<0.500	<2.50	22.9	<25.0	<2.00	<10.0	95900	93300
1790	<0.500	<2.50	27.0	27.1	<2.00	<10.0	67700	66300
<100	<0.500	<2.50	82.7	75.4	<2.00	<10.0	36900	35800
830	<0.500	<2.50	27.1	25.4	<2.00	<10.0	68400	65300
<100	<0.500	<2.50	26.5	26.2	<2.00	<10.0	61400	58500
<100	<0.500	<2.50	31.3	31.5	<2.00	<10.0	43300	41300
<100	<0.500	<2.50	10.8	<25.0	<2.00	<10.0	38100	36500
<100	<0.500	<2.50	11.0	<25.0	<2.00	<10.0	38900	38100
2420	<0.500	<2.50	25.3	<25.0	<2.00	<10.0	90300	88900
1980	<0.500	<2.50	27.2	25.9	<2.00	<10.0	77600	75600
<100	<0.500	<2.50	40.0	38.2	<2.00	<10.0	7090	6870
234	<0.500	<2.50	32.3	34.0	<2.00	<10.0	63300	61200
5330	0.743	<2.50	7.73	<25.0	<2.00	<10.0	16200	15800
11500	1.56	13.1	<5.00	<25.0	<2.00	<10.0	17900	17800
3430	<5.00	<2.50	<50.0	<25.0	3.75	<10.0	221000	215000
3440	<2.50	2.53	<25.0	<25.0	<10.0	<10.0	217000	209000
224	9.10	11.1	<50.0	<25.0	<2.00	<10.0	163000	159000
1930	<0.500	<2.50	8.39	<25.0	<2.00	<10.0	37900	37500
4540	<5.00	<2.50	<50.0	<25.0	<20.0	<10.0	439000	443000
4410	<5.00	<2.50	<50.0	<25.0	<20.0	<10.0	439000	444000
18100	<2.50	<2.50	<25.0	<25.0	<10.0	<10.0	381000	388000
20100	<2.50	<2.50	<25.0	<25.0	<10.0	<10.0	379000	376000
880	<2.50	<2.50	<25.0	<25.0	<10.0	<10.0	224000	227000
470	<2.50	<2.50	<25.0	<25.0	<10.0	<10.0	37600	37900
1320	<2.50	<2.50	<25.0	<25.0	<10.0	<10.0	158000	163000
5150	<2.50	<2.50	<25.0	<25.0	<10.0	<10.0	463000	469000

<100	<2.50	<2.50	<25.0	<25.0	<2.00	<10.0	<100	<500
<100	<2.50	<2.50	<25.0	<25.0	<2.00	<10.0	<100	<500
<100	<2.50	<2.50	<25.0	<25.0	<2.00	<10.0	<100	<500
<100	<2.50	<2.50	<25.0	<25.0	<2.00	<10.0	<100	<500
2940	<2.50	<2.50	<25.0	<25.0	<10.0	<10.0	106000	103000

Cd Dissolved µg/L	Cd Total µg/L	Co Dissolved µg/L	Co Total µg/L	Cr Dissolved µg/L	Cr Total µg/L	Cu Dissolved µg/L	Cu Total µg/L
2.08	1.90	<0.100	<0.500	1.04	5.95	20.5	38.8
6.54	6.15	<0.100	<0.500	<1.00	7.19	76.5	69.7
13.3	12.3	<0.100	<0.500	<1.00	7.59	88.7	84.0
13.1	12.3	<0.100	<0.500	<1.00	7.18	88.9	82.2
11.6	10.4	<0.100	<0.500	<1.00	5.60	103	95.8
52.9	53.6	16.1	14.9	<5.00	<5.00	516	466
19.2	17.9	2.48	2.39	<1.00	6.62	185	181
17.4	17.9	1.86	1.61	<5.00	<5.00	148	131
19.5	17.9	2.39	2.29	<1.00	6.00	182	174
16.9	15.7	2.19	1.97	<1.00	6.49	159	152
15.5	14.3	1.92	1.98	<1.00	7.15	130	131
31.0	30.8	96.2	97.6	<5.00	<5.00	4.52	13.5
31.0	31.7	102	91.1	<5.00	<5.00	5.75	10.4
24.7	22.7	56.6	48.7	<10.0	<5.00	84.6	74.8
67.3	67.3	78.6	84.3	8.74	6.86	3000	3370
26.6	26.1	48.4	50.0	<5.00	<5.00	370	415
6.49	6.57	200	183	<10.0	8.82	71.4	61.8
2.29	2.36	135	137	<5.00	<5.00	3.14	4.84
24.7	24.3	56.0	58.7	<5.00	<5.00	333	351
141	142	140	151	<5.00	<5.00	1060	1170
25.5	26.4	58.4	62.9	<5.00	<5.00	339	384
1.78	2.03	7.82	7.48	<5.00	5.03	3.15	15.1
12.8	13.1	31.4	32.9	<5.00	<5.00	169	191
13.0	13.5	30.6	33.8	<5.00	<5.00	171	193
9.96	10.3	27.6	29.8	<5.00	<5.00	123	144
9.92	10.5	27.1	29.1	<5.00	<5.00	126	147
4.23	4.13	38.2	31.6	<5.00	<5.00	20.8	16.9
3.96	3.90	31.4	38.9	<5.00	5.55	17.5	20.9
10.8	10.1	31.9	27.8	<5.00	<5.00	150	131
8.38	8.06	32.8	33.7	<5.00	<5.00	107	110
8.38	8.46	32.3	34.0	<5.00	<5.00	107	111
8.24	8.44	33.4	34.7	<5.00	<5.00	106	112
8.26	7.68	34.1	34.0	<5.00	<5.00	106	108
7.25	7.19	31.2	31.7	<5.00	<5.00	93.0	102
7.36	7.72	33.6	31.3	<5.00	<5.00	98.2	96.3
2.17	2.18	34.1	33.0	<5.00	<5.00	<2.50	<2.50
1.15	1.72	30.1	31.2	<5.00	<5.00	<2.50	9.34
7.01	6.94	31.0	30.0	<5.00	<5.00	95.0	95.4
7.27	7.36	31.6	31.2	<5.00	<5.00	95.9	94.3
1.72	1.65	38.6	36.6	<5.00	<5.00	36.2	36.6
7.01	7.93	33.3	31.4	<5.00	<5.00	95.9	95.9
<0.500	0.580	<0.500	<0.500	<5.00	<5.00	<2.50	5.97
6.37	6.67	27.2	25.9	<5.00	<5.00	89.4	86.1

6.15	6.76	26.6	26.5	<5.00	<5.00	86.7	85.4
6.00	5.73	25.3	26.3	<5.00	<5.00	78.8	80.0
5.30	5.70	25.6	27.1	<5.00	<5.00	73.3	74.5
5.06	5.74	24.6	25.4	<5.00	<5.00	74.4	73.7
5.34	5.95	25.4	23.1	<5.00	<5.00	73.4	68.9
5.82	5.49	25.2	23.4	<5.00	<5.00	76.1	68.6
5.63	5.51	25.8	22.7	<5.00	13.6	78.3	66.9
5.45	5.44	24.7	23.2	<5.00	<5.00	76.1	68.7
1.19	1.29	<0.100	<0.500	<1.00	<5.00	2.73	4.46
1.32	1.51	<0.100	<0.500	<1.00	<5.00	1.95	3.82
1.31	1.56	<0.100	<0.500	<1.00	<5.00	1.90	4.04
1.29	1.51	<0.100	<0.500	<1.00	5.16	1.26	3.82
1.14	1.34	<0.500	<0.500	9.60	5.98	4.02	4.24
2.74	2.97	7.71	8.65	<1.00	<5.00	16.3	27.8
2.67	2.71	7.64	8.30	<1.00	<5.00	24.8	27.1
0.905	0.701	7.36	6.60	<5.00	<5.00	3.76	5.57
0.650	0.750	7.60	7.02	<5.00	<5.00	4.69	7.95
1.90	2.02	7.77	7.85	<1.00	<5.00	8.70	18.1
1.83	2.12	6.77	7.51	2.34	<5.00	9.52	18.0
1.85	2.10	7.24	7.95	1.83	<5.00	10.5	18.2
1.05	1.29	3.44	4.29	<1.00	<5.00	0.593	12.6
<0.100	<0.500	<0.100	<0.500	1.23	<5.00	<0.500	<2.50
1.06	1.12	3.63	3.62	<1.00	<5.00	0.732	5.19
0.594	1.01	<0.100	<0.500	<1.00	<5.00	0.695	<2.50
1.48	1.85	<0.100	<0.500	2.00	<5.00	4.66	6.38
0.235	0.515	<0.100	<0.500	2.57	<5.00	2.77	3.10
0.214	<0.500	<0.100	<0.500	1.72	<5.00	0.913	3.30
1.70	2.20	6.90	6.97	<1.00	<5.00	4.30	15.9
1.40	1.47	5.36	5.66	<1.00	5.83	3.08	13.1
<0.100	<0.500	<0.100	<0.500	<1.00	<5.00	0.732	<2.50
0.704	0.832	1.85	1.93	<1.00	<5.00	<0.500	<2.50
46.1	46.7	6.78	6.28	<1.00	5.80	1460	1300
136	153	13.8	13.6	1.02	7.61	5920	6280
48.6	48.4	23.7	21.6	<10.0	<5.00	16.2	15.2
46.6	46.4	22.6	21.8	<5.00	<5.00	22.9	16.8
<1.00	0.541	5.19	4.62	<10.0	<5.00	<5.00	<2.50
20.9	19.3	6.70	6.49	<1.00	5.91	17.3	16.8
34.2	32.4	110	93.6	<10.0	<5.00	<5.00	<2.50
31.2	31.5	103	99.6	<10.0	5.61	<5.00	<2.50
50.5	49.9	69.1	71.5	5.15	9.85	3420	3660
59.4	56.8	72.1	71.9	10.2	6.02	4040	4260
1.71	1.85	12.3	14.3	<5.00	<5.00	<2.50	4.95
<0.500	<0.500	1.07	1.07	<5.00	<5.00	4.18	6.14
1.49	1.66	9.85	9.63	<5.00	5.08	2.63	11.8
2.25	1.80	131	139	<5.00	<5.00	<2.50	<2.50

<0.500	<0.500	<0.500	<0.500	<5.00	<5.00	2.66	<2.50
<0.500	<0.500	<0.500	<0.500	<5.00	<5.00	2.96	<2.50
<0.500	<0.500	<0.500	<0.500	5.00	<5.00	3.60	<2.50
<0.500	<0.500	<0.500	<0.500	<5.00	<5.00	<2.50	<2.50
15.8	14.8	21.1	18.9	<5.00	<5.00	85.0	111

Fe Dissolved µg/L	Fe Total µg/L	K Dissolved µg/L	K Total µg/L	Mg Dissolved µg/L	Mg Total µg/L	Mn Dissolved µg/L	Mn Total µg/L
<100	<500	385	<1250	4600	4540	82.1	84.5
<100	<500	455	<1250	4130	3960	73.3	73.0
<100	<500	577	<1250	7070	6790	627	628
<100	<500	583	<1250	7140	6910	594	602
<100	<500	545	<1250	6890	6750	495	494
2520	2610	1660	1690	12800	12800	21200	20900
321	<500	687	<1250	7610	7430	4020	4090
<500	<500	<1250	<1250	9040	9000	6030	5960
303	<500	704	<1250	7790	7650	4300	4340
165	<500	668	<1250	7280	7120	3770	3890
128	<500	677	<1250	6910	6760	3260	3330
88500	94400	1420	1670	27600	27800	33500	34300
88600	88500	1770	1610	27700	27400	33700	32800
41500	43100	<2500	<1250	17200	17300	18300	18600
57100	58800	<1250	<1250	28500	28600	23100	23400
34700	39100	<1250	<1250	18000	18200	17900	18200
31000	32800	<2500	1700	34400	36000	49100	50600
137000	140000	<1250	1370	32000	31900	47300	48400
35400	37000	<1250	1270	19600	19500	21000	21200
18300	18900	<1250	<1250	40800	40800	79400	80200
38700	42700	<1250	<1250	19700	19800	21800	22300
2550	3970	<1250	<1250	8260	8420	1670	1710
14900	19700	<1250	<1250	13800	13800	11400	11500
17400	22300	<1250	<1250	13800	14000	11200	11700
13300	19400	1410	1570	12400	12500	8820	8990
15400	19200	<1250	1480	12400	12300	9140	9190
60000	11900	4340	4400	9520	9380	889	870
59800	61100	3950	4090	9510	9570	878	899
13600	18700	1790	1640	12600	12500	8990	8800
26000	30200	1920	2230	12500	12600	7000	7120
29000	32400	2130	2150	12400	12700	7060	7220
28500	31900	1890	2280	12400	12700	7090	7140
24800	27900	1980	2350	12500	12800	6740	6820
19100	22100	1890	2050	12100	12300	6420	6430
23000	26100	2000	2190	12200	12400	6490	6500
13200	17000	2220	2460	19400	19500	8630	8680
5050	16300	1910	2210	16700	17000	10800	11000
15000	18100	1920	2080	12000	12200	6300	6380
19700	22300	1780	2070	12100	12100	6370	6310
16900	17000	2940	3260	14400	14500	5920	5920
15700	18400	2000	2070	12000	12200	6310	6350
525	2560	<1250	<1250	6930	6970	1000	1010
12400	16000	1750	1930	11400	11400	5670	5600

10600	14800	1680	1920	11400	11600	5610	5550
11100	15700	1810	1990	11400	11400	5370	5410
11800	15900	1910	2110	11200	11400	5120	5100
11300	15100	2010	2160	11100	11300	5050	5070
11400	15400	1950	2200	11100	11500	5040	5120
11700	15100	2260	2160	11500	11400	5270	5080
11500	14400	2240	2130	11600	11400	5300	5140
8580	14600	2310	2150	11500	11400	5200	5120
<100	<500	731	<1250	3730	3740	1340	1350
<100	<500	722	<1250	3660	3670	1320	1350
<100	<500	716	<1250	3680	3630	1370	1380
<100	<500	724	<1250	3700	3680	1410	1420
<500	<500	<1250	<1250	3690	3650	1420	1390
2180	5100	1180	1470	6360	6250	2590	2640
2270	4890	1170	1250	6280	6100	2540	2550
3510	4630	<1250	<1250	6460	6420	435	428
3600	4740	<1250	<1250	6690	6620	455	444
2480	4640	1020	<1250	6380	6250	1660	1670
2210	4240	1060	1270	6350	6200	1580	1580
2150	4390	1080	<1250	6460	6330	1660	1650
<100	2330	1020	<1250	5260	5210	847	909
<100	<500	884	<1250	7820	7680	<2.00	<10.0
<100	1060	1020	<1250	5290	5130	856	839
<100	<500	736	<1250	3670	3550	184	189
<100	<500	590	<1250	2090	2040	<2.00	<10.0
<100	<500	470	<1250	1760	1720	158	161
<100	<500	409	<1250	1670	1650	<2.00	<10.0
1020	3210	1020	<1250	6210	6170	1440	1470
810	2790	953	<1250	5660	5510	1210	1210
<100	<500	514	<1250	2340	2310	<2.00	<10.0
<100	<500	1080	<1250	6060	5970	546	561
3800	3920	673	<1250	5760	5610	3750	3750
10400	12600	664	<1250	7430	7350	12200	12600
27200	28300	2330	2320	14000	13500	28400	30400
26800	28000	2350	2320	13300	13500	29200	29400
6510	7700	697	<1250	8330	8160	2670	2710
6400	6290	741	<1250	3140	3100	1710	1720
91000	93400	<2500	1640	27500	27600	33900	33900
90000	92500	<2500	1700	27400	27700	33600	33800
66400	68400	<1250	1410	21600	21700	28900	29100
62200	61700	<1250	<1250	22400	21900	28500	28500
18200	19700	<1250	<1250	9290	9320	2570	2610
<500	<500	<1250	<1250	2060	2060	64.8	66.9
9810	11800	<1250	<1250	6980	7110	1760	1780
141000	148000	1250	1370	31900	32200	48400	49300

<100	<500	<250	<1250	<100	<500	<2.00	<10.0
<100	<500	<250	<1250	<100	<500	<2.00	<10.0
<100	<500	<250	<1250	<100	<500	<2.00	<10.0
<100	<500	<250	<1250	<100	<500	<2.00	<10.0
16800	17900	1680	1490	9340	9110	37200	36200

Na Dissolved µg/L	Na Total µg/L	Ni Dissolved µg/L	Ni Total µg/L	Pb Dissolved µg/L	Pb Total µg/L	Sb Dissolved µg/L	Sb Total µg/L
1430	1400	<0.500	<2.50	0.325	1.37	<0.500	<2.50
1270	<1250	0.777	2.60	0.738	0.982	<0.500	<2.50
1380	1320	7.22	7.60	1.53	1.77	<0.500	<2.50
1380	1320	7.55	7.66	4.80	5.28	<0.500	<2.50
1430	1330	6.98	6.74	5.68	6.45	<0.500	<2.50
5240	5180	11.7	16.3	75.4	72.6	<2.50	<2.50
2120	2020	7.27	7.90	15.6	17.5	<0.500	<2.50
5270	5190	9.45	11.5	15.3	14.7	<2.50	<2.50
2570	2420	7.36	7.65	15.0	16.7	<0.500	<2.50
3130	3040	7.58	7.10	12.6	14.1	<0.500	<2.50
3330	3160	5.76	7.73	9.42	10.6	<0.500	<2.50
8270	8300	56.9	49.3	2.79	76.4	<2.50	<2.50
8670	8570	42.4	51.3	2.82	72.0	<2.50	<2.50
6030	5990	35.1	24.9	9.91	47.8	<5.00	<2.50
5260	5140	53.6	45.7	4.40	4.15	<2.50	<2.50
5800	5850	36.0	22.6	28.0	46.7	<2.50	<2.50
9530	9730	67.7	73.5	28.0	27.9	<5.00	<2.50
9360	9160	74.7	64.2	1.14	3.06	<2.50	<2.50
6120	6160	38.7	27.3	23.9	34.2	<2.50	<2.50
8300	8260	62.9	61.0	35.4	37.3	<2.50	<2.50
6170	6180	44.4	32.9	32.0	40.6	<2.50	<2.50
3550	3500	8.84	<2.50	<0.500	2.20	<2.50	<2.50
4870	4820	22.3	15.5	18.2	24.8	<2.50	<2.50
4810	4880	22.8	17.2	15.1	22.7	<2.50	<2.50
4540	4500	19.1	15.7	26.8	40.3	<2.50	<2.50
4460	4440	17.5	13.6	16.2	20.4	<2.50	<2.50
1590	1510	34.9	24.6	5.04	4.92	<2.50	<2.50
1540	1510	25.7	30.8	5.44	5.09	<2.50	<2.50
4670	4530	12.7	14.1	27.0	40.8	<2.50	<2.50
4130	4060	19.9	20.9	17.9	20.7	<2.50	<2.50
4090	4140	17.0	20.6	13.0	15.6	<2.50	<2.50
4120	4190	16.3	21.2	13.5	16.1	<2.50	<2.50
4300	4350	20.0	20.6	15.5	17.6	<2.50	<2.50
4480	4460	18.0	17.5	14.8	16.5	<2.50	<2.50
4410	4470	19.2	17.9	12.5	15.0	<2.50	<2.50
9770	9810	9.48	8.65	<0.500	3.26	<2.50	<2.50
9400	9640	7.25	6.72	<0.500	3.64	<2.50	<2.50
4480	4560	16.5	18.4	13.2	15.4	<2.50	<2.50
4500	4500	18.5	18.8	11.1	13.7	<2.50	<2.50
3520	3470	20.2	19.7	22.7	23.6	<2.50	<2.50
4500	4470	19.8	20.5	12.9	15.1	<2.50	<2.50
6170	6200	<2.50	<2.50	<0.500	2.09	<2.50	<2.50
4690	4630	14.0	16.4	11.6	13.4	<2.50	<2.50

4690	4740	13.4	15.0	12.0	12.8	<2.50	<2.50
4780	4750	13.0	15.5	11.3	12.8	<2.50	<2.50
4750	4840	11.9	18.1	11.2	10.8	<2.50	<2.50
4800	4840	12.4	16.4	11.2	13.5	<2.50	<2.50
4780	4950	10.4	15.0	10.5	12.8	<2.50	<2.50
4960	4920	10.3	13.3	11.3	12.9	<2.50	<2.50
4870	4910	13.5	22.7	11.3	13.0	<2.50	<2.50
4950	4900	11.4	15.0	10.9	12.8	<2.50	<2.50
2710	2730	<0.500	<2.50	0.131	2.93	<0.500	<2.50
2610	2620	<0.500	<2.50	<0.100	3.42	<0.500	<2.50
2690	2660	<0.500	<2.50	0.221	3.15	<0.500	<2.50
2660	2670	<0.500	<2.50	<0.100	2.83	<0.500	<2.50
2740	2630	5.82	3.60	<0.500	2.84	<2.50	<2.50
3470	3360	4.83	4.62	0.176	6.17	<0.500	<2.50
3460	3290	5.22	4.38	3.01	5.78	<0.500	<2.50
3880	3780	<2.50	2.63	<0.500	2.40	<2.50	<2.50
3960	3900	<2.50	2.92	0.662	2.57	<2.50	<2.50
3670	3560	4.89	3.71	<0.100	4.45	<0.500	<2.50
3780	3600	5.86	4.62	0.175	4.77	<0.500	<2.50
3820	3640	6.18	4.52	0.255	4.67	<0.500	<2.50
3050	2910	2.34	<2.50	<0.100	5.23	<0.500	<2.50
3820	3690	<0.500	<2.50	<0.100	<0.500	<0.500	<2.50
3030	2850	2.43	<2.50	<0.100	1.45	<0.500	<2.50
2540	2480	<0.500	<2.50	0.155	2.27	<0.500	<2.50
2690	2600	<0.500	<2.50	2.42	3.33	<0.500	<2.50
2060	2040	0.758	<2.50	<0.100	0.567	<0.500	<2.50
2150	2180	<0.500	<2.50	<0.100	0.520	<0.500	<2.50
3710	3610	4.83	3.76	<0.100	3.80	<0.500	<2.50
3260	3140	3.26	2.94	<0.100	3.28	<0.500	<2.50
827	<1250	<0.500	<2.50	<0.100	<0.500	<0.500	<2.50
3120	3010	0.552	<2.50	<0.100	0.642	<0.500	<2.50
1120	<1250	7.19	7.74	2.31	2.72	<0.500	<2.50
1690	1620	8.83	9.89	0.885	44.4	<0.500	<2.50
6670	6360	11.8	9.12	228	240	<5.00	<2.50
6300	6430	11.4	12.2	210	230	<2.50	<2.50
5580	5270	<5.00	<2.50	<1.00	2.18	<5.00	<2.50
3640	3480	4.35	4.38	27.6	31.4	<0.500	<2.50
8740	8570	50.7	45.6	21.5	84.5	<5.00	<2.50
8680	8650	48.4	48.5	3.63	84.3	<5.00	<2.50
5160	5040	44.9	36.3	4.75	4.90	<2.50	<2.50
5170	4930	55.2	34.7	0.765	0.856	<2.50	<2.50
4160	4100	10.9	4.77	<0.500	3.59	<2.50	<2.50
1570	1510	<2.50	<2.50	<0.500	<0.500	<2.50	<2.50
3330	3320	8.40	<2.50	<0.500	2.89	<2.50	<2.50
9410	9550	69.6	50.9	1.15	2.77	<2.50	<2.50

<250	<1250	<2.50	<2.50	<0.500	<0.500	<2.50	<2.50
<250	<1250	4.03	<2.50	<0.500	<0.500	<2.50	<2.50
<250	<1250	4.52	<2.50	0.599	<0.500	<2.50	<2.50
<250	<1250	3.57	<2.50	<0.500	<0.500	<2.50	<2.50
3790	3570	14.1	13.8	9.15	71.7	<2.50	<2.50

Se Dissolved µg/L	Se Total µg/L	Sr Dissolved µg/L	Sr Total µg/L	Tl Dissolved µg/L	Tl Total µg/L	V Dissolved µg/L	V Total µg/L
<0.500	3.31	566	567	<0.500	<2.50	<2.00	<10.0
<0.500	3.20	328	326	<0.500	<2.50	<2.00	<10.0
0.723	3.87	326	329	<0.500	<2.50	<2.00	<10.0
<0.500	3.50	327	331	<0.500	<2.50	<2.00	<10.0
<0.500	4.97	332	332	<0.500	<2.50	<2.00	<10.0
<2.50	2.94	1460	1460	<2.50	<2.50	<10.0	<10.0
<0.500	3.82	524	529	<0.500	<2.50	<2.00	<10.0
<2.50	<2.50	1690	1700	<2.50	<2.50	<10.0	<10.0
<0.500	4.38	693	698	<0.500	<2.50	<2.00	<10.0
<0.500	4.29	961	975	<0.500	<2.50	<2.00	<10.0
0.522	4.08	1000	1020	<0.500	<2.50	<2.00	<10.0
<2.50	3.19	4760	4850	<2.50	18.5	<10.0	<10.0
<2.50	<2.50	4850	4850	<2.50	<2.50	<10.0	<10.0
<5.00	3.40	2940	2960	<5.00	<2.50	<20.0	<10.0
5.16	4.29	3610	3640	<2.50	<2.50	<10.0	<10.0
<2.50	5.37	2870	2930	<2.50	<2.50	<10.0	<10.0
<5.00	4.95	4750	4840	<5.00	27.8	<20.0	<10.0
2.69	3.33	5620	5690	<2.50	<2.50	<10.0	<10.0
<2.50	3.48	3170	3170	<2.50	<2.50	<10.0	<10.0
9.27	8.64	3270	3320	<2.50	<2.50	<10.0	<10.0
<2.50	<2.50	3100	3170	<2.50	<2.50	<10.0	<10.0
<2.50	3.62	2350	2410	<2.50	<2.50	<10.0	<10.0
<2.50	<2.50	2730	2750	<2.50	<2.50	<10.0	<10.0
<2.50	2.72	2680	2790	<2.50	<2.50	<10.0	<10.0
<2.50	<2.50	2230	2260	<2.50	<2.50	<10.0	<10.0
<2.50	<2.50	2260	2270	<2.50	<2.50	<10.0	<10.0
<2.50	<2.50	444	446	<2.50	<2.50	21.4	<10.0
3.75	<2.50	437	453	<2.50	<2.50	20.8	13.8
<2.50	<2.50	2260	2260	<2.50	<2.50	<10.0	<10.0
<2.50	<2.50	2010	2050	<2.50	13.7	<10.0	<10.0
<2.50	<2.50	2020	2080	<2.50	4.64	<10.0	<10.0
<2.50	<2.50	2040	2080	<2.50	<2.50	<10.0	<10.0
<2.50	<2.50	1980	2040	<2.50	<2.50	<10.0	<10.0
<2.50	<2.50	2080	2140	<2.50	<2.50	<10.0	<10.0
<2.50	<2.50	2100	2150	<2.50	<2.50	<10.0	<10.0
<2.50	<2.50	5020	5100	<2.50	<2.50	<10.0	<10.0
<2.50	<2.50	4410	4580	<2.50	<2.50	<10.0	<10.0
<2.50	<2.50	2080	2150	<2.50	<2.50	<10.0	<10.0
<2.50	<2.50	2100	2130	<2.50	<2.50	<10.0	<10.0
<2.50	<2.50	1150	1170	<2.50	<2.50	<10.0	<10.0
<2.50	<2.50	2090	2130	<2.50	<2.50	<10.0	<10.0
<2.50	<2.50	4900	4960	<2.50	<2.50	<10.0	<10.0
<2.50	<2.50	2380	2400	<2.50	<2.50	<10.0	<10.0

<2.50	<2.50	2400	2450	<2.50	<2.50	<10.0	<10.0
<2.50	<2.50	2350	2390	<2.50	<2.50	<10.0	<10.0
3.14	<2.50	2280	2330	<2.50	<2.50	<10.0	<10.0
3.42	<2.50	2270	2320	<2.50	<2.50	<10.0	<10.0
3.93	<2.50	2260	2360	<2.50	16.6	<10.0	<10.0
2.54	<2.50	2340	2340	<2.50	<2.50	<10.0	<10.0
<2.50	<2.50	2340	2350	<2.50	4.99	<10.0	<10.0
<2.50	<2.50	2350	2340	<2.50	<2.50	<10.0	<10.0
<0.500	<2.50	625	643	<0.500	<2.50	<2.00	<10.0
<0.500	<2.50	622	638	<0.500	<2.50	<2.00	<10.0
<0.500	<2.50	626	636	<0.500	<2.50	<2.00	<10.0
<0.500	<2.50	630	644	<0.500	<2.50	<2.00	<10.0
<2.50	<2.50	649	648	<2.50	<2.50	<10.0	<10.0
<0.500	<2.50	1180	1200	<0.500	<2.50	<2.00	<10.0
<0.500	<2.50	1160	1170	<0.500	<2.50	<2.00	<10.0
<2.50	<2.50	748	745	<2.50	<2.50	<10.0	<10.0
<2.50	<2.50	770	771	<2.50	<2.50	<10.0	<10.0
<0.500	<2.50	985	991	<0.500	<2.50	<2.00	<10.0
<0.500	<2.50	969	980	<0.500	<2.50	<2.00	<10.0
<0.500	<2.50	995	999	<0.500	<2.50	<2.00	<10.0
<0.500	<2.50	678	688	<0.500	<2.50	<2.00	<10.0
<0.500	<2.50	202	203	<0.500	<2.50	<2.00	<10.0
<0.500	<2.50	676	675	<0.500	<2.50	<2.00	<10.0
<0.500	<2.50	579	578	<0.500	29.4	<2.00	<10.0
1.06	<2.50	595	601	<0.500	6.53	<2.00	<10.0
<0.500	<2.50	413	417	<0.500	<2.50	<2.00	<10.0
<0.500	<2.50	458	466	<0.500	<2.50	<2.00	<10.0
<0.500	<2.50	934	950	<0.500	<2.50	<2.00	<10.0
<0.500	<2.50	793	808	<0.500	<2.50	<2.00	<10.0
<0.500	<2.50	52.7	52.1	<0.500	<2.50	<2.00	<10.0
<0.500	<2.50	609	616	<0.500	4.70	<2.00	<10.0
0.760	3.41	49.8	49.3	<0.500	<2.50	<2.00	<10.0
2.13	5.19	69.0	68.7	<0.500	<2.50	<2.00	<10.0
<5.00	5.47	1840	1880	<5.00	<2.50	<20.0	<10.0
<2.50	2.63	1850	1880	<2.50	<2.50	<10.0	<10.0
<5.00	3.08	1780	1810	<5.00	<2.50	<20.0	<10.0
<0.500	<2.50	508	510	<0.500	<2.50	<2.00	<10.0
<5.00	3.05	5010	4950	<5.00	<2.50	<20.0	<10.0
<5.00	3.93	4970	4970	<5.00	<2.50	<20.0	<10.0
4.87	7.83	5780	5830	<2.50	5.06	<10.0	<10.0
5.41	6.31	5690	5680	<2.50	<2.50	<10.0	<10.0
<2.50	<2.50	2550	2590	<2.50	<2.50	<10.0	<10.0
<2.50	6.33	350	350	<2.50	<2.50	<10.0	<10.0
<2.50	5.68	1820	1850	<2.50	<2.50	<10.0	<10.0
4.52	6.09	5730	5840	<2.50	<2.50	<10.0	<10.0

<2.50	<2.50	<2.00	<10.0	<2.50	<2.50	<10.0	<10.0
<2.50	<2.50	<2.00	<10.0	<2.50	<2.50	<10.0	<10.0
<2.50	<2.50	<2.00	<10.0	<2.50	<2.50	<10.0	<10.0
<2.50	<2.50	<2.00	<10.0	<2.50	<2.50	<10.0	<10.0
<2.50	<2.50	1100	1090	<2.50	<2.50	<10.0	<10.0

Zn Dissolved µg/L	Zn Total µg/L	Chloride mg/L	Fluoride mg/L	Hardness mg/L	Nitrate/Nitrite as N mg/L	Sulfate as SO4 mg/L
291	303	<1.0	0.2	158	0.2	134
1430	1310	<1.0	0.2	120	0.3	114
2470	2350	<1.0	0.7	174	0.3	175
2500	2410	<1.0	0.8	175	0.3	177
2400	2270	<1.0	0.8	169	0.2	173
26100	24800	<10.0	3.7	461	<2.0	545
6420	6140	<1.0	1.3	213	0.2	239
8400	8010	<10.0	<1.0	403	<2.0	50.9
6660	6460	<10.0	1.5	241	<2.0	237
5730	5610	<10.0	1.6	275	<2.0	261
5030	4990	<10.0	1.9	283	<2.0	269
16300	16700	<100	<10.0	1220	<20.0	1230
16300	15600	<100	50.8	1220	<20.0	12900
10300	10500	<10.0	3.8	741	<2.0	813
16600	16800	<100	<10.0	889	<20.0	1080
10600	10800	<10.0	3.9	747	<2.0	847
19500	19800	<100	<10	1140	<20	1360
20600	20900	<100	<10.0	1280	<20.0	1420
11600	11600	<10.0	3.7	798	<2.0	918
47900	48500	<100	20.0	1020	<20.0	7840
12000	12300	<10.0	3.9	795	<2.0	934
534	570	<10.0	1.3	468	<2.0	423
6020	6050	<10.0	2.6	625	<2.0	642
5980	6180	<10.0	2.5	622	<2.0	644
4690	4760	<10.0	2.3	520	<2.0	558
4840	4860	<10.0	2.3	522	<2.0	556
1250	1180	<10.0	1.0	123	<2.0	331
1220	1270	<10.0	1.1	124	<2.0	325
4780	4580	<10.0	2.4	532	<2.0	556
3830	3910	<10.0	2.1	508	<2.0	584
3870	3890	<10.0	2.1	504	<2.0	588
3870	3860	<10.0	2.3	508	<2.0	882
3730	3670	<10.0	2.1	515	<2.0	599
3480	3430	<10.0	2.0	520	<2.0	599
3480	3450	<10.0	2.0	529	<2.0	603
2590	2620	<10.0	<1.0	877	<2.0	<20.0
1560	2090	<10.0	1.9	791	<2.0	576
3370	3350	<10.0	2.0	517	<2.0	590
3390	3310	<10.0	1.9	525	<2.0	599
1000	984	<10.0	1.7	305	<2.0	435
3350	3320	<10.0	2.0	518	<2.0	591
102	131	<10.0	1.6	612	<2.0	518
2970	2920	<10.0	1.9	522	<2.0	575

2940	2900	<10.0	1.9	529	<2.0	593
2770	2740	<10.0	1.9	527	<2.0	588
2600	2550	<10.0	1.9	516	<2.0	581
2590	2560	<10.0	1.9	515	<2.0	581
2590	2600	<10.0	1.8	515	<2.0	579
2690	2570	<10.0	1.9	537	<2.0	570
2710	2590	<10.0	1.8	545	2.7	572
2670	2550	<10.0	1.8	537	<2.0	562
300	306	1.2	0.6	174	<0.2	139
396	402	1.2	0.5	172	1.4	137
424	426	1.2	0.5	173	0.4	137
405	424	1.2	0.5	174	0.7	138
293	304	1.2	0.6	172	<0.2	140
1160	1170	<10.0	<1.0	297	<2.0	259
1160	1150	<10.0	<1.0	295	7.7	251
173	177	<10.0	<1.0	220	<2.0	192
182	178	<10.0	<1.0	225	<2.0	197
743	731	<10.0	<1.0	263	<2.0	235
733	726	<10.0	<1.0	261	<2.0	232
745	727	<10.0	<1.0	266	<2.0	235
427	545	1.4	0.5	191	<0.2	183
<10.0	<50.0	3.0	0.2	124	<0.2	31.0
442	445	1.4	0.5	193	0.2	183
189	189	1.2	0.5	168	<0.2	130
181	177	<1.0	0.2	117	0.2	61.3
52.5	54.0	<1.0	0.4	102	<0.2	59.1
29.0	<50.0	<1.0	0.4	104	0.2	57.6
682	685	<10.0	<1.0	251	<2.0	232
561	557	1.2	0.3	217	0.2	144
<10.0	<50.0	<1.0	<0.1	27	0.2	16.6
241	264	1.6	0.4	183	<0.2	159
10400	10000	<1.0	1.1	64	0.3	153
33200	32800	<10.0	2.5	75	<2.0	253
33800	34100	<10.0	4.3	610	<2.0	718
33400	33100	<10.0	4.3	597	<2.0	718
833	840	<10.0	3.3	441	<2.0	369
2230	2130	<1.0	2.7	108	<0.2	130
16300	16100	<100	<10.0	1210	<20.0	1240
16000	16200	<100	<10.0	1210	<20.0	1240
19500	19700	<100	<10.0	1040	<20.0	1130
21600	21400	<100	<10.0	1040	<20.0	1160
726	736	<10.0	2.3	598	<2.0	536
<50.0	<50.0	<1.0	0.5	102	0.2	93.4
504	522	<10.0	1.6	423	<2.0	387
21100	21200	<100	<10.0	1290	<20.0	1440

<10.0	<50.0	<1.0	<0.1	<2	<0.2	<2.0
<10.0	<50.0	<1.0	<0.1	<2	<0.2	<2.0
<10.0	<50.0	<1.0	<0.1	<2	<0.2	<2.0
<10.0	<50.0	<1.0	<0.1	<2	<0.2	<2.0
4420	4220	<10.0	3.3	304	<2.0	341

Total Alkalinity mg CaCO3/L	Cation/Anion RPD	pass/fail
22.7	0.7	pass
<5.00	0.3	pass
<5.00	2.0	pass
<5.00	2.1	pass
<5.00	2.9	pass
<5.00	3.2	pass
<5.00	4.5	pass
<5.00	9.7	fail
<5.00	0.6	pass
<5.00	0.6	pass
<5.00	0.2	pass
<5.00	1.2	pass
<5.00	3.9	pass
<5.00	0.2	pass
<5.00	3.7	pass
<5.00	2.3	pass
<5.00	3.1	pass
<5.00	0.3	pass
<5.00	2.8	pass
<5.00	72.7	fail
<5.00	3.3	pass
11.5	1.9	pass
<5.00	0.1	pass
<5.00	0.2	pass
<5.00	2.3	pass
<5.00	1.5	pass
<5.00	20.1	fail
<5.00	19.3	fail
<5.00	1.0	pass
<5.00	3.9	pass
<5.00	4.2	pass
<5.00	23.1	fail
<5.00	4.7	pass
<5.00	3.9	pass
<5.00	4.1	pass
16.3	89.8	fail
25.2	13.8	fail
<5.00	4.0	pass
<5.00	4.8	pass
<5.00	14.1	fail
<5.00	3.8	pass
73.8	1.0	pass
<5.00	4.3	pass

<5.00	4.0	pass
<5.00	3.8	pass
<5.00	4.1	pass
<5.00	4.2	pass
<5.00	4.0	pass
<5.00	2.7	pass
<5.00	2.2	pass
<5.00	2.5	pass
35.3	1.9	pass
31.2	2.8	pass
35.7	2.3	pass
32.8	3.0	pass
37.4	1.1	pass
5.26	4.4	pass
<5.00	5.4	fail
<5.00	3.5	pass
<5.00	3.6	pass
<5.00	2.8	pass
<5.00	3.0	pass
<5.00	3.3	pass
9.52	0.2	pass
95.2	7.5	fail
9.60	0.2	pass
41.6	0.9	pass
52.1	6.5	fail
41.2	4.9	pass
43.0	5.6	fail
<5.00	0.6	pass
5.54	18.8	fail
9.88	5.1	fail
27.6	0.3	pass
<5.00	26.7	fail
<5.00	25.4	fail
<5.00	0.1	pass
<5.00	0.8	pass
27.1	4.7	pass
<5.00	4.9	pass
<5.00	0.6	pass
<5.00	0.5	pass
<5.00	3.6	pass
<5.00	0.5	pass
9.35	4.9	pass
6.82	1.3	pass
<5.00	3.2	pass
<5.00	0.3	pass

<5.00	N/A (FB)	N/A (FB)
<5.00	N/A (FB)	N/A (FB)
<5.00	N/A (FB)	N/A (FB)
<5.00	N/A (FB)	N/A (FB)
<5.00	4.5	pass

Notes and Assumptions:

1.) Dissolved Oxygen readings not available for all sites due to malfunctioning Hydrolab
2.) Flow measurements not available for some samples due to inadequate water @ sample site
3.) Results for analytes not detected by the lab are reported as "<Reporting Limit"
4.) Cation/Anion Balance Calculations done on Dissolved Metals fractions only (per Rob Runkel)
5.) For nondetected samples, cation/anion balance calculations were done in one of two ways: NDs were calculated at 0 -or-
NDs were calculated with the RL as a number
(See "CationAnion Balance Calcs" tab to determine how each affected sample was calculated)

Location	Samp_No	Matrix_ID	Date Collected	Sample Time	pH	[H+] Anion meq/L	Ca Dissolved	Ca Dissolved (mg/L)
A56	A830-0096	Water	10/3/2012	17:10	7.39	0.0000000461400		61
A58	A830-0097	Water	10/4/2012	13:00	7.45	0.0000000443300		43
A62	A830-0098	Water	10/4/2012	11:20	7.65	0.0000000238100		38
A62B	A830-0099	Water	10/4/2012	12:30	7.64	0.0000000238900		39
A68	A830-0100	Water	10/1/2012	16:50	7.67	0.0000000263500		64
A68	A830-0101	Water	10/2/2012	11:45	7.42	0.0000000462700		63
A68	A830-0102	Water	10/3/2012	8:45	7.24	0.0000000663300		63
A68	A830-0103	Water	10/4/2012	10:15	5.79	0.00000263700		64
A69A	A830-0104	Water	10/2/2012	11:00	5.54	0.000003109000		109
A70B	A830-0105	Water	10/2/2012	10:20	6.05	0.0000009108000		108
A71B	A830-0106	Water	10/2/2012	9:35	6.1	0.000000894900		95
A72	A830-0107	Water	10/2/2012	9:15	5.98	0.00000194300		94
A72	A830-0108	Water	10/4/2012	9:30	5.79	0.00000295900		96
A73	A830-0109	Water	10/3/2012	14:30	6.54	0.000000390300		90
A73B	A830-0110	Water	10/3/2012	13:30	6.74	0.000000277600		78
A73EC	A830-0111	Water	10/3/2012	14:50	7.05	0.000000097090		7
A75B	A830-0112	Water	10/3/2012	9:40	7.02	0.0000001068400		68
A75CC	A830-0113	Water	10/3/2012	11:05	7.99	0.0000000136900		37
A75D	A830-0114	Water	10/3/2012	11:45	7.21	0.0000000667700		68
ATS-1	A830-0115	Water	10/3/2012	11:00	3.19	0.00065399000		399
BBRIDGE	A830-0116	Water	10/3/2012	10:20	7.2	0.0000000663300		63
CC01C	A830-0117	Water	10/2/2012	11:10	3.2	0.00063 16200		16
CC01C1	A830-0118	Water	10/2/2012	11:25	2.88	0.0013217900		18
CC01F	A830-0119	Water	10/3/2012	16:10	7.59	0.0000000355700		56
CC01H	A830-0120	Water	10/3/2012	15:35	6.03	0.000000941200		41
CC01T	A830-0121	Water	10/3/2012	15:16	6.07	0.000000957800		58
CC01U	A830-0122	Water	10/3/2012	14:45	6.49	0.000000358500		59
CC02B	A830-0123	Water	10/3/2012	13:55	4.09	0.0000872600		73
CC02B2	A830-0124	Water	10/3/2012	13:50	4.1	0.0000883600		84
CC02D	A830-0125	Water	10/2/2012	9:50	2.28	0.00525221000		221
CC02E	A830-0126	Water	10/2/2012	9:15	3.78	0.00017163000		163
CC02H	A830-0127	Water	10/3/2012	14:30	5.19	0.00000656200		56
CC02K	A830-0128	Water	10/2/2012	8:45	5.6	0.00000337900		38
CC03	A830-0129	Water	10/3/2012	12:00	5.87	0.000001268000		268
CC03A	A830-0130	Water	10/3/2012	13:05	5.62	0.00000297900		98
CC03B	A830-0131	Water	10/3/2012	12:20	5.31	0.000005102000		102
CC03C	A830-0132	Water	10/2/2012	13:40	5.31	0.000005439000		439
CC03D	A830-0133	Water	10/2/2012	12:50	5.34	0.000005439000		439
CC03E	A830-0134	Water	10/3/2012	12:13	6.33	0.0000005445000		445
CC06	A830-0135	Water	10/2/2012	16:20	3.69	0.00020381000		381
CC06B	A830-0136	Water	10/2/2012	16:35	2.02	0.00955379000		379
CC07	A830-0137	Water	10/3/2012	11:40	2.98	0.00105309000		309
CC14	A830-0138	Water	10/3/2012	15:00	6.5	0.0000003224000		224

CC15	A830-0139	Water	10/3/2012	15:00	7.01	0.000000103760	38
CC16B	A830-0140	Water	10/3/2012	15:10	6.55	0.000000315800	158
CC17	A830-0141	Water	10/3/2012	10:20	6.62	0.000000217400	174
CC18	A830-0142	Water	10/3/2012	10:45	3.8	0.00016287000	287
CC18B	A830-0143	Water	10/3/2012	11:15	3.88	0.00013269000	269
CC19	A830-0144	Water	10/2/2012	15:15	4.88	0.00001463000	463
CC19C	A830-0145	Water	10/3/2012	10:54	5.22	0.000006458000	458
CC20	A830-0146	Water	10/3/2012	10:10	3.72	0.00019286000	286
CC20B	A830-0147	Water	10/4/2012	12:20	3.13	0.00074342000	342
CC21	A830-0148	Water	10/2/2012	17:35	3.85	0.00014227000	227
CC21	A830-0149	Water	10/3/2012	9:40	4.09	0.00008226000	226
CC21B	A830-0150	Water	10/2/2012	16:50	3.58	0.00026188000	188
CC21B	A830-0151	Water	10/3/2012	9:40	3.86	0.00014189000	189
CC26	A830-0152	Water	10/2/2012	16:50	3.42	0.0003834100	34
CC28C	A830-0153	Water	10/2/2012	16:30	3.49	0.00032183000	183
CC28C	A830-0154	Water	10/3/2012	9:15	3.67	0.00021181000	181
CC28C	A830-0155	Water	10/4/2012	11:40	3.6	0.00025183000	183
CC30N	A830-0156	Water	10/2/2012	16:15	3.39	0.00041186000	186
CC34	A830-0157	Water	10/2/2012	16:00	3.49	0.00032188000	188
CC34	A830-0158	Water	10/4/2012	11:25	3.81	0.00015192000	192
CC38	A830-0159	Water	10/4/2012	12:15	6.96	0.000000128900	289
CC38C	A830-0160	Water	10/4/2012	12:30	7.04	0.000000093190	319
CC-40	A830-0161	Water	10/2/2012	15:00	3.03	0.0009398300	98
CC40B	A830-0162	Water	10/2/2012	15:30	3.27	0.00054187000	187
CC40B	A830-0163	Water	10/4/2012	11:07	3.48	0.00033190000	190
CC41	A830-0164	Water	10/2/2012	14:15	3.38	0.00042188000	188
CC42	A830-0165	Water	10/2/2012	14:30	7.6	0.000000032340	234
CC44B	A830-0166	Water	10/2/2012	13:45	3.51	0.00031190000	190
CC45K	A830-0167	Water	10/2/2012	13:45	3.6	0.00025193000	193
CC46B	A830-0168	Water	10/2/2012	13:15	3.48	0.00033192000	192
CC47C	A830-0169	Water	10/2/2012	12:45	3.57	0.00027188000	188
CC48	A830-0170	Water	10/2/2012	12:30	3.4	0.00040188000	188
CC48	A830-0171	Water	10/4/2012	10:30	3.68	0.00021188000	188
CC49	A830-0172	Water	10/2/2012	12:00	3.43	0.00037199000	199
A68_DUP	A830-0173	Water	10/1/2012	16:50	7.67	0.000000026290	63
CC02D_DUP	A830-0174	Water	10/2/2012	9:50	2.28	0.00525217000	217
CC21B_DUP	A830-0175	Water	10/2/2012	16:50	3.58	0.0002633700	34
CC26_DUP	A830-0176	Water	10/2/2012	16:50	3.42	0.00038192000	192
CC49_DUP	A830-0177	Water	10/2/2012	12:00	3.43	0.00037196000	196
CC48_DUP	A830-0178	Water	10/2/2012	12:30	3.4	0.00040196000	196
CC03E_DUP	A830-0179	Water	10/3/2012	12:13	6.33	0.000000544300	443
FD-1	A830-0184	Water	10/3/2012	14:20	4.04	0.00009146000	146
M34	A830-0185	Water	10/2/2012	10:00	6.15	0.000000777300	77
M34	A830-0186	Water	10/4/2012	9:30	6.19	0.000000679200	79
MTD-4	A830-0187	Water	10/3/2012	15:00	3.39	0.00041164000	164

SEEPA	A830-0188	Water	10/4/2012	13:30	6	0.000001106000	106

Ca Molality (mmol/L)	Ca Cation meq/L	Fe Dissolved	Fe Dissolved (mg/L)	Fe Molality (mmol/L)	Fe Cation meq/L	K Dissolved
1.5319361277	3.0638722555	100	0.1	0.0017921147	0.0035842294	736
1.0803393214	2.1606786427	100	0.1	0.0017921147	0.0035842294	590
0.9505988024	1.9011976048	100	0.1	0.0017921147	0.0035842294	470
0.9705588822	1.9411177645	100	0.1	0.0017921147	0.0035842294	409
1.5843313373	3.1686626747	100	0.1	0.0017921147	0.0035842294	731
1.5643712575	3.1287425150	100	0.1	0.0017921147	0.0035842294	722
1.5793413174	3.1586826347	100	0.1	0.0017921147	0.0035842294	716
1.5893213573	3.1786427146	100	0.1	0.0017921147	0.0035842294	724
2.7195608782	5.4391217565	2180	2.18	0.0390681004	0.0781362007	1180
2.6946107784	5.3892215569	2270	2.27	0.0406810036	0.0813620072	1170
2.3677644711	4.7355289421	2480	2.48	0.0444444444	0.0888888889	1020
2.3527944112	4.7055888224	2210	2.21	0.0396057348	0.0792114695	1060
2.3927145709	4.7854291417	2150	2.15	0.0385304659	0.0770609319	1080
2.2529940120	4.5059880240	1020	1.02	0.0182795699	0.0365591398	1020
1.9361277445	3.8722554890	810	0.81	0.0145161290	0.0290322581	953
0.1768962076	0.3537924152	100	0.1	0.0017921147	0.0035842294	514
1.7065868263	3.4131736527	100	0.1	0.0017921147	0.0035842294	1020
0.9206586826	1.8413173653	100	0.1	0.0017921147	0.0035842294	884
1.6891217565	3.3782435130	100	0.1	0.0017921147	0.0035842294	1020
9.9550898204	19.9101796407	31000	31	0.5555555556	1.1111111111	
1.5793413174	3.1586826347	100	0.1	0.0017921147	0.0035842294	1080
0.4041916168	0.8083832335	3800	3.8	0.0681003584	0.1362007168	673
0.4466067864	0.8932135729	10400	10.4	0.1863799283	0.3727598566	664
1.3897205589	2.7794411178	100	0.1	0.0017921147	0.0035842294	385
1.0279441118	2.0558882236	100	0.1	0.0017921147	0.0035842294	455
1.4421157685	2.8842315369	100	0.1	0.0017921147	0.0035842294	577
1.4595808383	2.9191616766	100	0.1	0.0017921147	0.0035842294	583
1.8113772455	3.6227544910	321	0.321	0.0057526882	0.0115053763	687
2.0858283433	4.1716566866	303	0.303	0.0054301075	0.0108602151	704
5.5139720559	11.0279441118	27200	27.2	0.4874551971	0.9749103943	2330
4.0668662675	8.1337325349	6510	6.51	0.1166666667	0.2333333333	697
1.4021956088	2.8043912176	100	0.1	0.0017921147	0.0035842294	545
0.9456087824	1.8912175649	6400	6.4	0.1146953405	0.2293906810	741
6.6866267465	13.3725349304	1500	41.5	0.7437275986	1.4874551971	2500
2.4426147705	4.8852295409	165	0.165	0.0029569892	0.0059139785	668
2.5449101796	5.0898203593	128	0.128	0.0022939068	0.0045878136	677
10.9530938124	21.9061876248	91000	91	1.6308243728	3.2616487455	2500
10.9530938124	21.9061876248	90000	90	1.6129032258	3.2258064516	2500
11.1027944112	22.2055888224	88500	88.5	1.5860215054	3.1720430108	1420
9.5059880240	19.0119760479	66400	66.4	1.1899641577	2.3799283154	1250
9.4560878244	18.9121756487	62200	62.2	1.1146953405	2.2293906810	
7.7095808383	15.4191616766	57100	57.1	1.0232974910	2.0465949821	
5.5888223553	11.1776447106	18200	18.2	0.3261648746	0.6523297491	1250

0.9381237525	1.8762475050	500	0.5	0.0089605735	0.0179211470	1250
3.9421157685	7.8842315369	9810	9.81	0.1758064516	0.3516129032	1250
4.3413173653	8.6826347305	2550	2.55	0.0456989247	0.0913978495	1250
7.1606786427	14.3213572854	35400	35.4	0.6344086022	1.2688172043	1250
6.7115768463	13.4231536926	34700	34.7	0.6218637993	1.2437275986	1250
11.5518962076	23.1037924152	141000	141	2.5268817204	5.0537634409	1250
11.4271457086	22.8542914172	137000	137	2.4551971326	4.9103942652	1250
7.1357285429	14.2714570858	38700	38.7	0.6935483871	1.3870967742	1250
8.5329341317	17.0658682635	18300	18.3	0.3279569892	0.6559139785	
5.6636726547	11.3273453094	14900	14.9	0.2670250896	0.5340501792	1250
5.6387225549	11.2774451098	17400	17.4	0.3118279570	0.6236559140	1250
4.6906187625	9.3812375250	13300	13.3	0.2383512545	0.4767025090	1410
4.7155688623	9.4311377246	15400	15.4	0.2759856631	0.5519713262	1250
0.8507984032	1.7015968064	59800	59.8	1.0716845878	2.1433691756	3950
4.5658682635	9.1317365269	26000	26	0.4659498208	0.9318996416	1920
4.5159680639	9.0319361277	29000	29	0.5197132616	1.0394265233	2130
4.5658682635	9.1317365269	28500	28.5	0.5107526882	1.0215053763	1890
4.6407185629	9.2814371257	24800	24.8	0.4444444444	0.8888888889	1980
4.6906187625	9.3812375250	19100	19.1	0.3422939068	0.6845878136	1890
4.7904191617	9.5808383234	23000	23	0.4121863799	0.8243727599	2000
7.2105788423	14.4211576846	5050	5.05	0.0905017921	0.1810035842	1910
7.9590818363	15.9181636727	13200	13.2	0.2365591398	0.4731182796	2220
2.4525948104	4.9051896208	16900	16.9	0.3028673835	0.6057347670	2940
4.6656686627	9.3313373253	15000	15	0.2688172043	0.5376344086	1920
4.7405189621	9.4810379242	19700	19.7	0.3530465950	0.7060931900	1780
4.6906187625	9.3812375250	15700	15.7	0.2813620072	0.5627240143	2000
5.8383233533	11.6766467066	525	0.525	0.0094086022	0.0188172043	1250
4.7405189621	9.4810379242	12400	12.4	0.2222222222	0.4444444444	1750
4.8153692615	9.6307385230	10600	10.6	0.1899641577	0.3799283154	1680
4.7904191617	9.5808383234	11100	11.1	0.1989247312	0.3978494624	1810
4.6906187625	9.3812375250	11800	11.8	0.2114695341	0.4229390681	1910
4.6906187625	9.3812375250	11300	11.3	0.2025089606	0.4050179211	2010
4.6906187625	9.3812375250	11400	11.4	0.2043010753	0.4086021505	1950
4.9650698603	9.9301397206	11500	11.5	0.2060931900	0.4121863799	2240
1.5693612774	3.1387225549	500	0.5	0.0089605735	0.0179211470	1250
5.4141716567	10.8283433134	26800	26.8	0.4802867384	0.9605734767	2350
0.8408183633	1.6816367265	60000	60	1.0752688172	2.1505376344	4340
4.7904191617	9.5808383234	13600	13.6	0.2437275986	0.4874551971	1790
4.8902195609	9.7804391218	8580	8.58	0.1537634409	0.3075268817	2310
4.8902195609	9.7804391218	11700	11.7	0.2096774194	0.4193548387	2260
11.0528942116	22.1057884232	88600	88.6	1.5878136201	3.1756272401	1770
3.6427145709	7.2854291417		0	0.0000000000	0.0000000000	
1.9286427146	3.8572854291	3510	3.51	0.0629032258	0.1258064516	1250
1.9760479042	3.9520958084	3600	3.6	0.0645161290	0.1290322581	1250
4.0918163673	8.1836327345	2520	2.52	0.0451612903	0.0903225806	1660

2.6447105788 5.289421157 16800 16.8 0.3010752688 0.6021505376 1680

K Dissolved (mg/L)	K Molality (mmol/L)	K Cation meq/L	Mg Dissolved	Mg Dissolved (mg/L)	Mg Molality (mmol/L)	Mg Cation meq/L	Mn Dissolved
0.736	0.0188235294	0.0188235294	3670	3.67	0.1509666804	0.3019333608	184
0.59	0.0150895141	0.0150895141	2090	2.09	0.0859728507	0.1719457014	2
0.47	0.0120204604	0.0120204604	1760	1.76	0.0723981900	0.1447963801	158
0.409	0.0104603581	0.0104603581	1670	1.67	0.0686960099	0.1373920197	2
0.731	0.0186956522	0.0186956522	3730	3.73	0.1534348005	0.3068696010	1340
0.722	0.0184654731	0.0184654731	3660	3.66	0.1505553270	0.3011106541	1320
0.716	0.0183120205	0.0183120205	3680	3.68	0.1513780337	0.3027560675	1370
0.724	0.0185166240	0.0185166240	3700	3.7	0.1522007404	0.3044014809	1410
1.18	0.0301790281	0.0301790281	6360	6.36	0.2616207322	0.5232414644	2590
1.17	0.0299232737	0.0299232737	6280	6.28	0.2583299054	0.5166598108	2540
1.02	0.0260869565	0.0260869565	6380	6.38	0.2624434389	0.5248868778	1660
1.06	0.0271099744	0.0271099744	6350	6.35	0.2612093789	0.5224187577	1580
1.08	0.0276214834	0.0276214834	6460	6.46	0.2657342657	0.5314685315	1660
1.02	0.0260869565	0.0260869565	6210	6.21	0.2554504319	0.5109008638	1440
0.953	0.0243734015	0.0243734015	5660	5.66	0.2328259975	0.4656519951	1210
0.514	0.0131457801	0.0131457801	2340	2.34	0.0962566845	0.1925133690	2
1.02	0.0260869565	0.0260869565	5290	5.29	0.2176059235	0.4352118470	856
0.884	0.0226086957	0.0226086957	7820	7.82	0.3216783217	0.6433566434	2
1.02	0.0260869565	0.0260869565	5260	5.26	0.2163718634	0.4327437269	847
0	0.0000000000	0.0000000000	34400	34.4	1.4150555327	2.8301110654	49100
1.08	0.0276214834	0.0276214834	6060	6.06	0.2492801316	0.4985602633	546
0.673	0.0172122762	0.0172122762	5760	5.76	0.2369395311	0.4738790621	3750
0.664	0.0169820972	0.0169820972	7430	7.43	0.3056355409	0.6112710819	12200
0.385	0.0098465473	0.0098465473	4600	4.6	0.1892225422	0.3784450843	82.1
0.455	0.0116368286	0.0116368286	4130	4.13	0.1698889346	0.3397778692	73.3
0.577	0.0147570332	0.0147570332	7070	7.07	0.2908268202	0.5816536405	627
0.583	0.0149104859	0.0149104859	7140	7.14	0.2937062937	0.5874125874	594
0.687	0.0175703325	0.0175703325	7610	7.61	0.3130399013	0.6260798026	4020
0.704	0.0180051151	0.0180051151	7790	7.79	0.3204442616	0.6408885232	4300
2.33	0.0595907928	0.0595907928	14000	14	0.5758946935	1.1517893871	28400
0.697	0.0178260870	0.0178260870	8330	8.33	0.3426573427	0.6853146853	2670
0.545	0.0139386189	0.0139386189	6890	6.89	0.2834224599	0.5668449198	495
0.741	0.0189514066	0.0189514066	3140	3.14	0.1291649527	0.2583299054	1710
2.5	0.0639386189	0.0639386189	17200	17.2	0.7075277664	1.4150555327	18300
0.668	0.0170843990	0.0170843990	7280	7.28	0.2994652406	0.5989304813	3770
0.677	0.0173145780	0.0173145780	6910	6.91	0.2842451666	0.5684903332	3260
2.5	0.0639386189	0.0639386189	27500	27.5	1.1312217195	2.2624434389	33900
2.5	0.0639386189	0.0639386189	27400	27.4	1.1271081859	2.2542163719	33600
1.42	0.0363171355	0.0363171355	27600	27.6	1.1353352530	2.2706705060	33500
1.25	0.0319693095	0.0319693095	21600	21.6	0.8885232415	1.7770464829	28900
0	0.0000000000	0.0000000000	22400	22.4	0.9214315097	1.8428630193	28500
0	0.0000000000	0.0000000000	28500	28.5	1.1723570547	2.3447141094	23100
1.25	0.0319693095	0.0319693095	9290	9.29	0.3821472645	0.7642945290	2570

1.25	0.0319693095	0.0319693095	2060	2.06	0.0847387906	0.16947581	264.8
1.25	0.0319693095	0.0319693095	6980	6.98	0.2871246401	0.5742492801	1760
1.25	0.0319693095	0.0319693095	8260	8.26	0.3397778692	0.6795557384	1670
1.25	0.0319693095	0.0319693095	19600	19.6	0.8062525710	1.6125051419	21000
1.25	0.0319693095	0.0319693095	18000	18	0.7404360346	1.4808720691	17900
1.25	0.0319693095	0.0319693095	31900	31.9	1.3122171946	2.624434389	148400
1.25	0.0319693095	0.0319693095	32000	32	1.3163307281	2.632661456	247300
1.25	0.0319693095	0.0319693095	19700	19.7	0.8103661045	1.620732209	021800
0	0.0000000000	0.0000000000	40800	40.8	1.6783216783	3.356643356	679400
1.25	0.0319693095	0.0319693095	13800	13.8	0.5676676265	1.135335253	011400
1.25	0.0319693095	0.0319693095	13800	13.8	0.5676676265	1.135335253	011200
1.41	0.0360613811	0.0360613811	12400	12.4	0.5100781571	1.020156314	38820
1.25	0.0319693095	0.0319693095	12400	12.4	0.5100781571	1.020156314	39140
3.95	0.1010230179	0.1010230179	9510	9.51	0.3911970383	0.782394076	5878
1.92	0.0491048593	0.0491048593	12500	12.5	0.5141916907	1.028383381	37000
2.13	0.0544757033	0.0544757033	12400	12.4	0.5100781571	1.020156314	37060
1.89	0.0483375959	0.0483375959	12400	12.4	0.5100781571	1.020156314	37090
1.98	0.0506393862	0.0506393862	12500	12.5	0.5141916907	1.028383381	36740
1.89	0.0483375959	0.0483375959	12100	12.1	0.4977375566	0.995475113	16420
2	0.0511508951	0.0511508951	12200	12.2	0.5018510901	1.003702180	26490
1.91	0.0488491049	0.0488491049	16700	16.7	0.6869600987	1.373920197	410800
2.22	0.0567774936	0.0567774936	19400	19.4	0.7980255039	1.596051007	88630
2.94	0.0751918159	0.0751918159	14400	14.4	0.5923488276	1.184697655	35920
1.92	0.0491048593	0.0491048593	12000	12	0.4936240230	0.987248046	16300
1.78	0.0455242967	0.0455242967	12100	12.1	0.4977375566	0.995475113	16370
2	0.0511508951	0.0511508951	12000	12	0.4936240230	0.987248046	16310
1.25	0.0319693095	0.0319693095	6930	6.93	0.2850678733	0.570135746	61000
1.75	0.0447570332	0.0447570332	11400	11.4	0.4689428219	0.937885643	85670
1.68	0.0429667519	0.0429667519	11400	11.4	0.4689428219	0.937885643	85610
1.81	0.0462915601	0.0462915601	11400	11.4	0.4689428219	0.937885643	85370
1.91	0.0488491049	0.0488491049	11200	11.2	0.4607157548	0.921431509	75120
2.01	0.0514066496	0.0514066496	11100	11.1	0.4566022213	0.913204442	65050
1.95	0.0498721228	0.0498721228	11100	11.1	0.4566022213	0.913204442	65040
2.24	0.0572890026	0.0572890026	11600	11.6	0.4771698889	0.954339777	95300
1.25	0.0319693095	0.0319693095	3690	3.69	0.1517893871	0.303578774	21420
2.35	0.0601023018	0.0601023018	13300	13.3	0.5470999589	1.094199917	729200
4.34	0.1109974425	0.1109974425	9520	9.52	0.3916083916	0.783216783	2889
1.79	0.0457800512	0.0457800512	12600	12.6	0.5183052242	1.036610448	48990
2.31	0.0590792839	0.0590792839	11500	11.5	0.4730563554	0.946112710	85200
2.26	0.0578005115	0.0578005115	11500	11.5	0.4730563554	0.946112710	85270
1.77	0.0452685422	0.0452685422	27700	27.7	1.1394487865	2.278897573	033700
0	0.0000000000	0.0000000000	9040	9.04	0.3718634307	0.743726861	46030
1.25	0.0319693095	0.0319693095	6460	6.46	0.2657342657	0.531468531	5435
1.25	0.0319693095	0.0319693095	6690	6.69	0.2751953928	0.550390785	7455
1.66	0.0424552430	0.0424552430	12800	12.8	0.5265322912	1.053064582	521200

1.68 0.0429667519 0.04296675199340

9.34 0.3842040313 0.76840806253 7200

Mn Dissolved (mg/L)	Mn Molality (mmol/L)	Mn Cation meq/L	Na Dissolved	Na Total (mg/L)	Na Molality (mmol/L)	Na Cation meq/L	Zn Dissolved
0.184	0.0033497178	0.0066994356	2540	2.54	0.1104347826	0.1104347826	189
0.002	0.0000364100	0.0000728200	2690	2.69	0.1169565217	0.1169565217	181
0.158	0.0028763881	0.0057527763	2060	2.06	0.0895652174	0.0895652174	52.5
0.002	0.0000364100	0.0000728200	2150	2.15	0.0934782609	0.0934782609	29
1.34	0.0243946841	0.0487893683	2710	2.71	0.1178260870	0.1178260870	300
1.32	0.0240305844	0.0480611688	2610	2.61	0.1134782609	0.1134782609	396
1.37	0.0249408338	0.0498816676	2690	2.69	0.1169565217	0.1169565217	424
1.41	0.0256690333	0.0513380666	2660	2.66	0.1156521739	0.1156521739	405
2.59	0.0471509194	0.0943018387	3470	3.47	0.1508695652	0.1508695652	1160
2.54	0.0462406699	0.0924813399	3460	3.46	0.1504347826	0.1504347826	1160
1.66	0.0302202804	0.0604405607	3670	3.67	0.1595652174	0.1595652174	743
1.58	0.0287638813	0.0575277626	3780	3.78	0.1643478261	0.1643478261	733
1.66	0.0302202804	0.0604405607	3820	3.82	0.1660869565	0.1660869565	745
1.44	0.0262151830	0.0524303659	3710	3.71	0.1613043478	0.1613043478	682
1.21	0.0220280357	0.0440560714	3260	3.26	0.1417391304	0.1417391304	561
0.002	0.0000364100	0.0000728200	827	0.827	0.0359565217	0.0359565217	10
0.856	0.0155834699	0.0311669397	3030	3.03	0.1317391304	0.1317391304	442
0.002	0.0000364100	0.0000728200	3820	3.82	0.1660869565	0.1660869565	10
0.847	0.0154196250	0.0308392500	3050	3.05	0.1326086957	0.1326086957	427
49.1	0.8938649190	1.7877298380	9530	9.53	0.4143478261	0.4143478261	19500
0.546	0.0099399235	0.0198798471	3120	3.12	0.1356521739	0.1356521739	241
3.75	0.0682687056	0.1365374113	1120	1.12	0.0486956522	0.0486956522	10400
12.2	0.2221008556	0.4442017113	1690	1.69	0.0734782609	0.0734782609	33200
0.0821	0.0014946295	0.0029892591	1430	1.43	0.0621739130	0.0621739130	291
0.0733	0.0013344256	0.0026688513	1270	1.27	0.0552173913	0.0552173913	1430
0.627	0.0114145276	0.0228290552	1380	1.38	0.0600000000	0.0600000000	2470
0.594	0.0108137630	0.0216275259	1380	1.38	0.0600000000	0.0600000000	2500
4.02	0.0731840524	0.1463681049	2120	2.12	0.0921739130	0.0921739130	6420
4.3	0.0782814491	0.1565628982	2570	2.57	0.1117391304	0.1117391304	6660
28.4	0.5170216639	1.0340433279	6670	6.67	0.2900000000	0.2900000000	33800
2.67	0.0486073184	0.0972146368	5580	5.58	0.2426086957	0.2426086957	833
0.495	0.0090114691	0.0180229383	1430	1.43	0.0621739130	0.0621739130	2400
1.71	0.0311305298	0.0622610595	3640	3.64	0.1582608696	0.1582608696	2230
18.3	0.3331512835	0.6663025669	6030	6.03	0.2621739130	0.2621739130	10300
3.77	0.0686328054	0.1372656108	3130	3.13	0.1360869565	0.1360869565	5730
3.26	0.0593482614	0.1186965228	3330	3.33	0.1447826087	0.1447826087	5030
33.9	0.6171490989	1.2342981977	8740	8.74	0.3800000000	0.3800000000	16300
33.6	0.6116876024	1.2233752048	8680	8.68	0.3773913043	0.3773913043	16000
33.5	0.6098671036	1.2197342072	8270	8.27	0.3595652174	0.3595652174	16300
28.9	0.5261241580	1.0522483160	5160	5.16	0.2243478261	0.2243478261	19500
28.5	0.5188421628	1.0376843255	5170	5.17	0.2247826087	0.2247826087	21600
23.1	0.4205352267	0.8410704533	5260	5.26	0.2286956522	0.2286956522	16600
2.57	0.0467868196	0.0935736392	4160	4.16	0.1808695652	0.1808695652	726

0.0648	0.0011796832	0.0023593665	1570	1.57	0.0682608696	0.0682608696	50	
1.76	0.0320407792	0.0640815583	3330	3.33	0.1447826087	0.1447826087		504
1.67	0.0304023302	0.0608046605	3550	3.55	0.1543478261	0.1543478261		534
21	0.3823047515	0.7646095030	6120	6.12	0.2660869565	0.2660869565		11600
17.9	0.3258692882	0.6517385764	5800	5.8	0.2521739130	0.2521739130		10600
48.4	0.8811214273	1.7622428545	9410	9.41	0.4091304348	0.4091304348		21100
47.3	0.8610959403	1.7221918806	9360	9.36	0.4069565217	0.4069565217		20600
21.8	0.3968687420	0.7937374841	6170	6.17	0.2682608696	0.2682608696		12000
79.4	1.4454760604	2.8909521209	8300	8.3	0.3608695652	0.3608695652		47900
11.4	0.2075368651	0.4150737302	4870	4.87	0.2117391304	0.2117391304		6020
11.2	0.2038958675	0.4077917349	4810	4.81	0.2091304348	0.2091304348		5980
8.82	0.1605679956	0.3211359913	4540	4.54	0.1973913043	0.1973913043		4690
9.14	0.1663935918	0.3327871837	4460	4.46	0.1939130435	0.1939130435		4840
0.878	0.0159839796	0.0319679592	1540	1.54	0.0669565217	0.0669565217		1220
7	0.1274349172	0.2548698343	4130	4.13	0.1795652174	0.1795652174		3830
7.06	0.1285272165	0.2570544329	4090	4.09	0.1778260870	0.1778260870		3870
7.09	0.1290733661	0.2581467322	4120	4.12	0.1791304348	0.1791304348		3870
6.74	0.1227016202	0.2454032405	4300	4.3	0.1869565217	0.1869565217		3730
6.42	0.1168760240	0.2337520481	4480	4.48	0.1947826087	0.1947826087		3480
6.49	0.1181503732	0.2363007464	4410	4.41	0.1917391304	0.1917391304		3480
10.8	0.1966138722	0.3932277444	9400	9.4	0.4086956522	0.4086956522		1560
8.63	0.1571090479	0.3142180958	9770	9.77	0.4247826087	0.4247826087		2590
5.92	0.1077735299	0.2155470599	3520	3.52	0.1530434783	0.1530434783		1000
6.3	0.1146914255	0.2293828509	4480	4.48	0.1947826087	0.1947826087		3370
6.37	0.1159657746	0.2319315492	4500	4.5	0.1956521739	0.1956521739		3390
6.31	0.1148734753	0.2297469507	4500	4.5	0.1956521739	0.1956521739		3350
1	0.0182049882	0.0364099763	6170	6.17	0.2682608696	0.2682608696		102
5.67	0.1032222829	0.2064445658	4690	4.69	0.2039130435	0.2039130435		2970
5.61	0.1021299836	0.2042599672	4690	4.69	0.2039130435	0.2039130435		2940
5.37	0.0977607865	0.1955215729	4780	4.78	0.2078260870	0.2078260870		2770
5.12	0.0932095394	0.1864190788	4750	4.75	0.2065217391	0.2065217391		2600
5.05	0.0919351902	0.1838703805	4800	4.8	0.2086956522	0.2086956522		2590
5.04	0.0917531404	0.1835062807	4780	4.78	0.2078260870	0.2078260870		2590
5.3	0.0964864373	0.1929728746	4870	4.87	0.2117391304	0.2117391304		2710
1.42	0.0258510832	0.0517021664	2740	2.74	0.1191304348	0.1191304348		293
29.2	0.5315856545	1.0631713089	6300	6.3	0.2739130435	0.2739130435		33400
0.889	0.0161842345	0.0323684690	1590	1.59	0.0691304348	0.0691304348		1250
8.99	0.1636628436	0.3273256872	4670	4.67	0.2030434783	0.2030434783		4780
5.2	0.0946659385	0.1893318769	4950	4.95	0.2152173913	0.2152173913		2670
5.27	0.0959402876	0.1918805753	4960	4.96	0.2156521739	0.2156521739		2690
33.7	0.6135081012	1.2270162024	8670	8.67	0.3769565217	0.3769565217		16300
6.03	0.1097760786	0.2195521573	5270	5.27	0.2291304348	0.2291304348		8400
0.435	0.0079191699	0.0158383397	3880	3.88	0.1686956522	0.1686956522		173
0.455	0.0082832696	0.0165665392	3960	3.96	0.1721739130	0.1721739130		182
21.2	0.3859457491	0.7718914983	5240	5.24	0.2278260870	0.2278260870		26100

37.2	0.6772255598	1.354451119	6	3790	3.79	0.1647826087	0.1647826087	4420	

Zn Dissolved (mg/L)	Zn Molality (mmol/L)	Zn Cation meq/L	Chloride	Chloride Molality (mmol/L)	Chloride Anion meq/L	Fluoride	F Molality (mmol/L)
0.189	0.0028899083	0.0057798165	1.2	0.03380	0.0338028169	0.5	0.02632
0.181	0.0027675841	0.0055351682	1	0.02817	0.0281690141	0.2	0.01053
0.0525	0.0008027523	0.0016055046	1	0.02817	0.0281690141	0.4	0.02105
0.029	0.0004434251	0.0008868502	1	0.02817	0.0281690141	0.4	0.02105
0.3	0.0045871560	0.0091743119	1.2	0.03380	0.0338028169	0.6	0.03158
0.396	0.0060550459	0.0121100917	1.2	0.03380	0.0338028169	0.5	0.02632
0.424	0.0064831804	0.0129663609	1.2	0.03380	0.0338028169	0.5	0.02632
0.405	0.0061926606	0.0123853211	1.2	0.03380	0.0338028169	0.5	0.02632
1.16	0.0177370031	0.0354740061	10	0.28169	0.2816901408	1	0.05263
1.16	0.0177370031	0.0354740061	10	0.28169	0.2816901408	1	0.05263
0.743	0.0113608563	0.0227217125	10	0.28169	0.2816901408	1	0.05263
0.733	0.0112079511	0.0224159021	10	0.28169	0.2816901408	1	0.05263
0.745	0.0113914373	0.0227828746	10	0.28169	0.2816901408	1	0.05263
0.682	0.0104281346	0.0208562691	10	0.28169	0.2816901408	1	0.05263
0.561	0.0085779817	0.0171559633	1.2	0.03380	0.0338028169	0.3	0.01579
0.01	0.0001529052	0.0003058104	1	0.02817	0.0281690141	0.1	0.00526
0.442	0.0067584098	0.0135168196	1.4	0.03944	0.0394366197	0.5	0.02632
0.01	0.0001529052	0.0003058104	3.0	0.08451	0.0845070423	0.2	0.01053
0.427	0.0065290520	0.0130581040	1.4	0.03944	0.0394366197	0.5	0.02632
19.5	0.2981651376	0.5963302752		0	0.0000000000		0
0.241	0.0036850153	0.0073700306	1.6	0.04507	0.0450704225	0.4	0.02105
10.4	0.1590214067	0.3180428135	1	0.02817	0.0281690141	1.1	0.05789
33.2	0.5076452599	1.0152905199	10	0.28169	0.2816901408	2.5	0.13158
0.291	0.0044495413	0.0088990826	1	0.02817	0.0281690141	0.2	0.01053
1.43	0.0218654434	0.0437308869	1	0.02817	0.0281690141	0.2	0.01053
2.47	0.0377675841	0.0755351682	1	0.02817	0.0281690141	0.7	0.03684
2.5	0.0382262997	0.0764525994	1	0.02817	0.0281690141	0.8	0.04211
6.42	0.0981651376	0.1963302752	1	0.02817	0.0281690141	1.3	0.06842
6.66	0.1018348624	0.2036697248	10	0.28169	0.2816901408	1.5	0.07895
33.8	0.5168195719	1.0336391437	10	0.28169	0.2816901408	4.3	0.22632
0.833	0.0127370031	0.0254740061	10	0.28169	0.2816901408	3.3	0.17368
2.4	0.0366972477	0.0733944954	1	0.02817	0.0281690141	0.8	0.04211
2.23	0.0340978593	0.0681957187	1	0.02817	0.0281690141	2.7	0.14211
10.3	0.1574923547	0.3149847095	10	0.28169	0.2816901408	3.8	0.2
5.73	0.0876146789	0.1752293578	10	0.28169	0.2816901408	1.6	0.08421
5.03	0.0769113150	0.1538226300	10	0.28169	0.2816901408	1.9	0.1
16.3	0.2492354740	0.4984709480	100	2.81690	2.8169014085	10	0.52632
16	0.2446483180	0.4892966361	100	2.81690	2.8169014085	10	0.52632
16.3	0.2492354740	0.4984709480	100	2.81690	2.8169014085	10	0.52632
19.5	0.2981651376	0.5963302752	100	2.81690	2.8169014085	10	0.52632
21.6	0.3302752294	0.6605504587		0	0.0000000000	10	0.52632
16.6	0.2538226300	0.5076452599		0	0.0000000000	10	0.52632
0.726	0.0111009174	0.0222018349	10	0.28169	0.2816901408	2.3	0.12105

0.05	0.0007645260	0.0015290520	1	0.02817	0.0281690141	0.5	0.02632
0.504	0.0077064220	0.0154128440	10	0.28169	0.2816901408	1.6	0.08421
0.534	0.0081651376	0.0163302752	10	0.28169	0.2816901408	1.3	0.06842
11.6	0.1773700306	0.3547400612	10	0.28169	0.2816901408	3.7	0.19474
10.6	0.1620795107	0.3241590214	10	0.28169	0.2816901408	3.9	0.20526
21.1	0.3226299694	0.6452599388	100	2.81690	2.8169014085	10	0.52632
20.6	0.3149847095	0.6299694190	100	2.81690	2.8169014085	10	0.52632
12	0.1834862385	0.3669724771	10	0.28169	0.2816901408	3.9	0.20526
47.9	0.7324159021	1.4648318043		0	0.0000000000	2	0.10526
6.02	0.0920489297	0.1840978593	10	0.28169	0.2816901408	2.6	0.13684
5.98	0.0914373089	0.1828746177	10	0.28169	0.2816901408	2.5	0.13158
4.69	0.0717125382	0.1434250765	10	0.28169	0.2816901408	2.3	0.12105
4.84	0.0740061162	0.1480122324	10	0.28169	0.2816901408	2.3	0.12105
1.22	0.0186544343	0.0373088685	10	0.28169	0.2816901408	1.1	0.05789
3.83	0.0585626911	0.1171253823	10	0.28169	0.2816901408	2.1	0.11053
3.87	0.0591743119	0.1183486239	10	0.28169	0.2816901408	2.1	0.11053
3.87	0.0591743119	0.1183486239	10	0.28169	0.2816901408	2.3	0.12105
3.73	0.0570336391	0.1140672783	10	0.28169	0.2816901408	2.1	0.11053
3.48	0.0532110092	0.1064220183		0	0.0000000000	2	0.10526
3.48	0.0532110092	0.1064220183	10	0.28169	0.2816901408	2	0.10526
1.56	0.0238532110	0.0477064220	10	0.28169	0.2816901408	1.9	0.1
2.59	0.0396024465	0.0792048930	10	0.28169	0.2816901408	1	0.05263
1	0.0152905199	0.0305810398	10	0.28169	0.2816901408	1.7	0.08947
3.37	0.0515290520	0.1030581040		0	0.0000000000	2	0.10526
3.39	0.0518348624	0.1036697248	10	0.28169	0.2816901408	1.9	0.1
3.35	0.0512232416	0.1024464832		0	0.0000000000	2	0.10526
0.102	0.0015596330	0.0031192661	10	0.28169	0.2816901408	1.6	0.08421
2.97	0.0454128440	0.0908256881	10	0.28169	0.2816901408	1.9	0.1
2.94	0.0449541284	0.0899082569		0	0.0000000000	1.9	0.1
2.77	0.0423547401	0.0847094801		0	0.0000000000	1.9	0.1
2.6	0.0397553517	0.0795107034		0	0.0000000000	1.9	0.1
2.59	0.0396024465	0.0792048930		0	0.0000000000	1.9	0.1
2.59	0.0396024465	0.0792048930		0	0.0000000000	1.8	0.09474
2.71	0.0414373089	0.0828746177	10	0.28169	0.2816901408	1.8	0.09474
0.293	0.0044801223	0.0089602446	1.2	0.03380	0.0338028169	0.6	0.03158
33.4	0.5107033639	1.0214067278	10	0.28169	0.2816901408	4.3	0.22632
1.25	0.0191131498	0.0382262997	10	0.28169	0.2816901408	1	0.05263
4.78	0.0730886850	0.1461773700	10	0.28169	0.2816901408	2.4	0.12632
2.67	0.0408256881	0.0816513761	10	0.28169	0.2816901408	1.8	0.09474
2.69	0.0411314985	0.0822629969	10	0.28169	0.2816901408	1.9	0.1
16.3	0.2492354740	0.4984709480	10	0.28169	0.2816901408	5.1	0.26842
8.4	0.1284403670	0.2568807339		0	0.0000000000		0
0.173	0.0026452599	0.0052905199	10	0.28169	0.2816901408	1	0.05263
0.182	0.0027828746	0.0055657492	10	0.28169	0.2816901408	1	0.05263
26.1	0.3990825688	0.7981651376	10	0.28169	0.2816901408	3.7	0.19474

4.42	0.0675840979	0.135168195710		0.28169	0.2816901408	3.3	0.17368

F Anion meq/L	Sulfate as SO4	SO4 Molality (mmol/L)	SO4 Anion meq/L	Total Alkalinity	Alk Molality (mmol/L)	Alk Anion meq/L	Total Cation (meq/L)
0.0263157895	130	1.35417	2.708333333	41.6	0.68197	0.6819672131	3.5111274506
0.0105263158	61.3	0.63854	1.277083333	52.1	0.85410	0.8540983607	2.4738626329
0.0210526316	59.1	0.61563	1.231250000	41.2	0.67541	0.6754098361	2.1585221953
0.0210526316	57.6	0.6	1.200000000	43.0	0.70492	0.7049180328	2.1869923255
0.0315789474	139	1.44792	2.895833333	35.3	0.57869	0.5786885246	3.6736019458
0.0263157895	137	1.42708	2.854166666	31.2	0.51148	0.5114754098	3.6255524310
0.0263157895	137	1.42708	2.854166666	35.7	0.58525	0.5852459016	3.6631395598
0.0263157895	138	1.4375	2.875000000	32.8	0.53770	0.5377049180	3.6845222323
0.0526315789	259	2.69792	5.395833333	35.26	0.08623	0.0862295082	6.3513267438
0.0526315789	251	2.61458	5.229166666	75	0.08197	0.0819672131	6.2955576684
0.0526315789	235	2.44792	4.895833333	75	0.08197	0.0819672131	5.6181199503
0.0526315789	232	2.41667	4.833333333	75	0.08197	0.0819672131	5.5786215620
0.0526315789	235	2.44792	4.895833333	75	0.08197	0.0819672131	5.6708921021
0.0526315789	232	2.41667	4.833333333	75	0.08197	0.0819672131	5.3141262554
0.0157894737	144	1.5	3.000000000	55.54	0.09082	0.0908196721	4.5942644908
0.0052631579	16.6	0.17292	0.345833333	39.88	0.16197	0.1619672131	0.5993710348
0.0263157895	183	1.90625	3.812500000	99.60	0.15738	0.1573770492	4.0544796708
0.0105263158	31.0	0.32292	0.645833333	95.2	1.56066	1.5606557377	2.6773325308
0.0263157895	183	1.90625	3.812500000	99.52	0.15607	0.1560655738	4.0171645370
0.0000000000	1360	14.16667	28.33333333	3	0	0.0000000000	26.6504554108
0.0210526316	159	1.65625	3.312500000	27.6	0.45246	0.4524590164	3.8513507254
0.0578947368	153	1.59375	3.187500000	75	0.08197	0.0819672131	1.9395821229
0.1315789474	253	2.63542	5.270833333	75	0.08197	0.0819672131	3.4285153573
0.0105263158	134	1.39583	2.791666666	72.7	0.37213	0.3721311475	3.2453792592
0.0105263158	114	1.1875	2.375000000	75	0.08197	0.0819672131	2.5125052135
0.0368421053	175	1.82292	3.645833333	75	0.08197	0.0819672131	3.6425915145
0.0421052632	177	1.84375	3.687500000	75	0.08197	0.0819672131	3.6831494283
0.0684210526	239	2.48958	4.979166666	75	0.08197	0.0819672131	4.7128635786
0.0789473684	237	2.46875	4.937500000	75	0.08197	0.0819672131	5.3134617263
0.2263157895	718	7.47917	14.95833333	75	0.08197	0.0819672131	15.5771652322
0.1736842105	369	3.84375	7.687500000	27.1	0.44426	0.4442622951	9.4356699378
0.0421052632	173	1.80208	3.604166666	75	0.08197	0.0819672131	3.5423567890
0.1421052632	130	1.35417	2.708333333	75	0.08197	0.0819672131	2.6866097175
0.2000000000	813	8.46875	16.93750000	75	0.08197	0.0819672131	17.5831653802
0.0842105263	261	2.71875	5.437500000	75	0.08197	0.0819672131	5.9557427236
0.1000000000	269	2.80208	5.604166666	75	0.08197	0.0819672131	6.0975197434
0.5263157895	1240	12.91667	25.83333333	75	0.08197	0.0819672131	29.6069924716
0.5263157895	1240	12.91667	25.83333333	75	0.08197	0.0819672131	29.5402167833
0.5263157895	1230	12.8125	25.62500000	75	0.08197	0.0819672131	29.7623903149
0.5263157895	1130	11.77083	23.54166666	75	0.08197	0.0819672131	25.0740507469
0.5263157895	1160	12.08333	24.16666666	67	0	0.0000000000	24.9169966678
0.5263157895	1080	11.25	22.50000000	00	0	0.0000000000	21.3889292621
0.1210526316	536	5.58333	11.16666666	679.35	0.15328	0.1532786885	12.9228836536

0.026315789593.4	0.97292	1.9458333333 6.82	0.11180	0.1118032787	2.1677649284
0.0842105263387	4.03125	8.06250000005	0.08197	0.0819672131	9.0663403227
0.0684210526423	4.40625	8.812500000011.5	0.18852	0.1885245902	9.7170406295
0.1947368421918	9.5625	19.12500000005	0.08197	0.0819672131	18.6202439511
0.2052631579847	8.82292	17.64583333335	0.08197	0.0819672131	17.4079260062
0.52631578951440	15	30.00000000005	0.08197	0.0819672131	33.6306059654
0.52631578951420	14.79167	29.58333333335	0.08197	0.0819672131	33.1884402949
0.2052631579934	9.72917	19.45833333335	0.08197	0.0819672131	18.7404167552
0.10526315797840	81.66667	163.3333333333	0	0.0000000000	25.7958203992
0.1368421053642	6.6875	13.37500000005	0.08197	0.0819672131	13.8397520248
0.1315789474644	6.70833	13.41666666675	0.08197	0.0819672131	13.8682836567
0.1210526316558	5.8125	11.62500000005	0.08197	0.0819672131	11.5763731281
0.1210526316556	5.79167	11.58333333335	0.08197	0.0819672131	11.7100851725
0.0578947368325	3.38542	6.77083333335	0.08197	0.0819672131	4.8649966153
0.1105263158584	6.08333	12.16666666675	0.08197	0.0819672131	11.6930084368
0.1105263158588	6.125	12.25000000005	0.08197	0.0819672131	11.6994376086
0.1210526316882	9.1875	18.375000000005	0.08197	0.0819672131	11.7776127930
0.1105263158599	6.23958	12.47916666675	0.08197	0.0819672131	11.7961832029
0.1052631579599	6.23958	12.4791666667	0	0.0000000000	11.6449183164
0.1052631579603	6.28125	12.56250000005	0.08197	0.0819672131	11.9946809354
0.1000000000576	6	12.000000000025.2	0.41311	0.4131147541	16.8745604994
0.052631578920	0.20833	0.41666666716.3	0.26721	0.2672131148	18.8623161423
0.0894736842435	4.53125	9.06250000005	0.08197	0.0819672131	7.1709186911
0.1052631579590	6.14583	12.2916666667	0	0.0000000000	11.4330852347
0.1000000000599	6.23958	12.47916666675	0.08197	0.0819672131	11.7597151030
0.1052631579591	6.15625	12.3125000000	0	0.0000000000	11.5106229576
0.0842105263518	5.39583	10.791666666773.8	1.20984	1.2098360656	12.6053591040
0.1000000000575	5.98958	11.97916666675	0.08197	0.0819672131	11.4096173725
0.1000000000593	6.17708	12.3541666667	0	0.0000000000	11.4898516903
0.1000000000588	6.125	12.2500000000	0	0.0000000000	11.4512532607
0.1000000000581	6.05208	12.1041666667	0	0.0000000000	11.2471778824
0.1000000000581	6.05208	12.1041666667	0	0.0000000000	11.2230355711
0.0947368421579	6.03125	12.0625000000	0	0.0000000000	11.2236624311
0.0947368421572	5.95833	11.91666666675	0.08197	0.0819672131	11.8419130389
0.0315789474140	1.45833	2.916666666737.4	0.61311	0.6131147541	3.6719846527
0.2263157895718	7.47917	14.95833333335	0.08197	0.0819672131	15.3069581644
0.0526315789331	3.44792	6.89583333335	0.08197	0.0819672131	4.8663768169
0.1263157895556	5.79167	11.58333333335	0.08197	0.0819672131	11.8276107449
0.0947368421562	5.85417	11.70833333335	0.08197	0.0819672131	11.5797301778
0.1000000000570	5.9375	11.87500000005	0.08197	0.0819672131	11.6939010361
0.26842105261289	13.42708	26.85416666675	0.08197	0.0819672131	29.7080259184
0.0000000000509	5.30208	10.6041666667	0	0.0000000000	8.7348105302
0.0526315789192	2	4.00000000005	0.08197	0.0819672131	4.7363549414
0.0526315789197	2.05208	4.10416666675	0.08197	0.0819672131	4.8577950088
0.1947368421545	5.67708	11.35416666675	0.08197	0.0819672131	11.1677652437

0.1736842105341	3.55208	7.104166666675	0.08197	0.0819672131	8.3573494338

Total Anion (meq/L)	CBE (%)	pass/fail	CBE Calculated:
3.4504191528	0.9	pass	RL as Number
2.1698770239	6.5	fail	RL as Number
1.9558814817	4.9	pass	RL as Number
1.9541396785	5.6	fail	RL as Number
3.5399036222	1.9	pass	RL as Number
3.4257606829	2.8	pass	RL as Number
3.4995311747	2.3	pass	RL as Number
3.4728235244	3.0	pass	RL as Number
5.8163845613	4.4	pass	RL as Number
5.6454555996	5.4	fail	RL as Number
5.3121222662	2.8	pass	RL as Number
5.2496222662	3.0	pass	RL as Number
5.3121222662	3.3	pass	RL as Number
5.2496222662	0.6	pass	RL as Number
3.1404119627	18.8	fail	RL as Number
0.5412327184	5.1	fail	RL as Number
4.0356294584	0.2	pass	RL as Number
2.3015224291	7.5	fail	RL as Number
4.0343179830	0.2	pass	RL as Number
28.3333333333	3.1	pass	ND as 0
3.8310820705	0.3	pass	RL as Number
3.3555309640	26.7	fail	RL as Number
5.7660696347	25.4	fail	RL as Number
3.2024931441	0.7	pass	RL as Number
2.4956625430	0.3	pass	RL as Number
3.7928116658	2.0	pass	RL as Number
3.8397414904	2.1	pass	RL as Number
5.1577239465	4.5	pass	RL as Number
5.3801047224	0.6	pass	RL as Number
15.5483064768	0.1	pass	RL as Number
8.5871366465	4.7	pass	RL as Number
3.7564081570	2.9	pass	RL as Number
2.9605748237	4.9	pass	RL as Number
17.5011573540	0.2	pass	RL as Number
5.8853678803	0.6	pass	RL as Number
6.0678240206	0.2	pass	RL as Number
29.2585177444	0.6	pass	RL as Number
29.2585177444	0.5	pass	RL as Number
29.0501844110	1.2	pass	RL as Number
26.9668510777	3.6	pass	RL as Number
24.6929824561	0.5	pass	ND as 0
23.0263157895	3.7	pass	ND as 0
11.7226881276	4.9	pass	RL as Number

2.1121214156	1.3	pass	RL as Number
8.5103678803	3.2	pass	RL as Number
9.3511357836	1.9	pass	RL as Number
19.6833941961	2.8	pass	RL as Number
18.2147538452	2.3	pass	RL as Number
33.4251844110	0.3	pass	RL as Number
33.0085177444	0.3	pass	RL as Number
20.0272538452	3.3	pass	RL as Number
163.4385964912	72.7	fail	ND as 0
13.8754994592	0.1	pass	RL as Number
13.9119029680	0.2	pass	RL as Number
12.1097099855	2.3	pass	RL as Number
12.0680433189	1.5	pass	RL as Number
7.1923854241	19.3	fail	RL as Number
12.6408503364	3.9	pass	RL as Number
12.7241836697	4.2	pass	RL as Number
18.8597099855	23.1	fail	RL as Number
12.9533503364	4.7	pass	RL as Number
12.5844298246	3.9	pass	ND as 0
13.0314205119	4.1	pass	RL as Number
12.7948048949	13.8	fail	RL as Number
1.0182015012	89.8	fail	RL as Number
9.5156310382	14.1	fail	RL as Number
12.3969298246	4.0	pass	ND as 0
12.9428240206	4.8	pass	RL as Number
12.4177631579	3.8	pass	ND as 0
12.3674033994	1.0	pass	RL as Number
12.4428240206	4.3	pass	RL as Number
12.4541666667	4.0	pass	ND as 0
12.3500000000	3.8	pass	ND as 0
12.2041666667	4.1	pass	ND as 0
12.2041666667	4.2	pass	ND as 0
12.1572368421	4.0	pass	ND as 0
12.3750608627	2.2	pass	RL as Number
3.5951631850	1.1	pass	RL as Number
15.5483064768	0.8	pass	RL as Number
7.3121222662	20.1	fail	RL as Number
12.0733064768	1.0	pass	RL as Number
12.1667275294	2.5	pass	RL as Number
12.3386573540	2.7	pass	RL as Number
27.4862450733	3.9	pass	RL as Number
10.6041666667	9.7	fail	ND as 0
4.4162889329	3.5	pass	RL as Number
4.5204555996	3.6	pass	RL as Number
11.9125608627	3.2	pass	RL as Number

7.6415082312 4.5 pass RL as Number